

March 1990

# The National Locksmith®



Vehicle and Home Security



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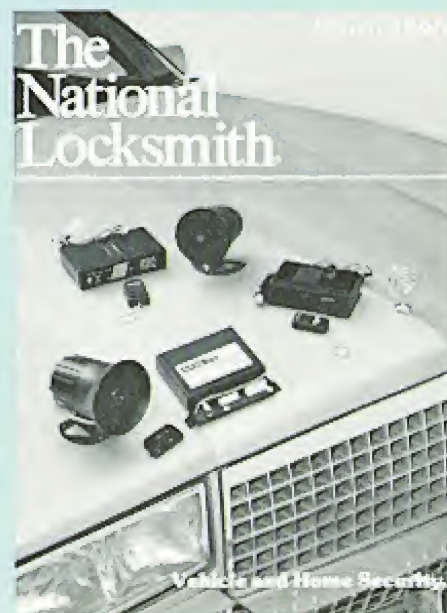
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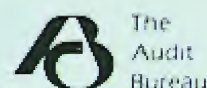
**On The Cover**  
Our Vehicle Security Issue features products from the following companies (shown clockwise from lower left): Crimestopper Security Products; Harrison Electronic Systems; and Auto Page, Inc.

*Click on the article  
you wish to read*

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**Editor/Publisher** Marc Goldberg  
**Managing Editor** Sandy Kucharski  
**Editorial Assistant** Veronica Razzano  
**Circulation Manager** Tracey Brady  
**Production Consultant** Marian Raney  
**Technical Editor** Robert Sieveking  
**Technical Writers** E. Lee Griggs, Ed Hill, Dale Libby, Joseph Locke, Regis McCafferty, Dave McOmie, Rick Ohmit, Don O'Shall, Sara Probasco, Jack Roberts, Shirl Schamp  
**Advertising Sales Mgr.** Thomas Miodoch  
**Advertising Sales Asst.** Debbie Schertzing  
**Technical Advisors** Richard Bushe, Robert Robinson, Sean DeForrest, Bert Michaels



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# Commentary

## A Chat With Marc

Do you have a hero? I don't mean like when you were a kid and the Lone Ranger was at the top of your list. What I mean is, as an adult, is there any person to whom you give the greatest respect and admiration? When we are grown up, I do not think we easily consider someone as a hero. We are still impressed with a great quarterback, but we no longer think of him as a god.

To me, a hero is someone who represents the finest aspects of the human condition...a person who has a vision of how life should be, and of how it can be changed or improved. It is very hard to change anything in this life. Have you ever tried to change anything about yourself you do not like? It is so very difficult to quit smoking or lose weight. If we cannot seem to change ourselves, no wonder it seems so impossible to change anyone or anything else around us.

Perhaps that is why I have the greatest admiration for a man whose dream was to change the locksmith industry. This man wanted not only to change an individual or two. He wanted to change an entire industry! Stan "Mac" McLean started this magazine and the National Locksmith Association back in 1929.

He did so because back then, one locksmith would not talk to another for fear of giving up some trade secret. There were no other associations at that time, nor was there another magazine. In fact, the Great Depression was just starting, with thousands losing their jobs and homes. Here is something Stan McLean wrote in the October 1931 edition of *The National Locksmith*.

*We are glad to know that the boys in many different parts of the country are now meeting regularly. So this is bringing about a great change in locksmithing so that the present day locksmith is altogether different than the one of a few years ago.*

*By this we don't want to indicate that some of the old-timers were hard-boiled with one another and would not work together or help each other in any way, but we do want to say that it just wasn't done a few years ago. Now, however, these men are becoming acquainted through the efforts of the N.L.A. In fact, many are finding some of the finest fellows engaged in locksmithing that they would ever want to know and are glad that they know their neighboring locksmiths well enough to be able to go over to him when they run into a "sticker" for a little help*

*or give a little help when it is needed.*

*Such a spirit of cooperation among the locksmiths is going to spell success for all times, and if you have a neighbor that just won't associate with you in any way, just go over and tell him about N.L.A. Let him join this organization and see for himself that the boys of this day and age are working together to make this a paying business. He will soon get that spirit of cooperation that will mean better times for both of you. It will mean that he will soon be calling on you and when you both start helping each other, then and right then, business is going to be better for both.*

Today, we live in another world. The N.L.A. now exists only in an honorary way, and Stan is gone. But, *The National Locksmith* magazine has 20,000 members instead of only a few hundred. And locksmiths help each other every day through A.L.O.A. and local associations.

I give a lot of the credit to Stan McLean. He had a vision. And he helped make it a reality.

\*\*\*\*\*

Along with this issue, you're getting Auto Security Products' Application Guide. This important booklet lists all the correct part numbers for foreign auto locks. You will need this as a reference throughout the year. The guide is dedicated to the memory of Sam Zeldin, founder of the automotive lock supply business.



*Marc Goldberg*  
Editor/Publisher

March 5



# Letters

Comments, Suggestions and Criticisms

*The National Locksmith is interested in your view. We do reserve the right to edit for clarity and lengths. Please address your comments, praise, or criticism to: Editor, The National Locksmith, 1533 Burgundy Parkway, Streamwood, IL 60107. All letters to the editor must be signed.*

## Is Computerization Really Worth It?

I have several questions regarding the article on Computerizing the Locksmith from the November 1989 issue of *The National Locksmith*: Just how much is this computer going to cost? How much does the paper cost? Program costs? Training costs? How much time is required to be up and running (days, months)?

I checked on 386-20 computers which cost over \$3,000 plus a printer, programs, desk-space and training. For \$3,000 I can sure make a lot of mistakes and not worry so much. I doubt that you can really add \$800 more dollars to our account in 60 days. I think the article is all hype. Most computer sales people want you to go to the program side of the store first and then when you find what is available you search out a computer. So I did just that. You know what the salesman wanted to know when I picked out one? He wanted to know what computer I had.

What a joke buying a computer is. What gives with you computer people? I have been going around to computer stores for almost a year. They all want to sell everything in the house except what I really need, even after I explain what I want it for. I think that the computer industry just wants to sell dreams and get rich quick.

About the only thing computers are good for is an expensive paperweight.

Jack Suer

Texas

*Editor's Note: Well, how about it? Let's hear from you computerized locksmiths. Is it worth it?*

## Do Suppliers Run Out At Year's End?

I recently received my January issue of *The National Locksmith*, and I found it to be as interesting and intellectual, as always. I am responding to the Commentary where you challenge us to improve on the various services locksmiths have to offer the customer. Since I have been in business a short time (3½ years) I'm not sure that I have anything to offer, but I do have a problem.

I'm referring to the way that our suppliers are unable to fill critical orders from late October through November, December, and sometimes into January. For example, in the period from October 1989 through December 1989,

I have been unable to receive such items as: WD 40 and Fort Lock cam locks, keyed alike. I'm talking about 12 to 18 locks, keyway 237. They substitute KA221 or 217, but they are always backordered. I tried to get six cabinet locks keyed alike; the original is an Eagle lock. The catalog offers a Lori that replaces the Eagle, but they are just out of stock. This gets to be a problem when I order the products for specific customers.

It would seem that every year, during the fourth quarter, the various suppliers allow the inventory to diminish and then reorder, after the first of the new year. This is always the case, regardless of where I submit my orders. My question is, are other locksmiths having the same problem?

Robert W. Clark

California

## Locksmithing School Overlooked in Directory

In January 1990 an editor's note referred to the "schools" section in the Directory issue (December 1989) as a "complete listing." This is incorrect.

There is a school in Memphis, Tennessee that has taught locksmithing to thousands of students from around the country for over 14 years. It offers a certified hands-on training course in locksmithing. This is offered by the Adult Education Dept. of the Mem-



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## ASP - Your Auto Service Center for the World



phis city school system. It has been taught by an old "war horse" of the locksmith profession, Jack Foster. The course is being taught at Sea Isle Vo-Tech, 5250 Sea Isle Rd., (901) 684-2154.

Many students from this course have gone on to be proud members of the N.L.A. and productive locksmiths, as I have. I hope that this oversight will be corrected in the near future and that you may do a feature article on the school and this man who has dedicated 14 years of his life teaching locksmithing to so many, and also, for standing by us the way he does.

Thank you Jack Foster and thank you N.L.A.

Steven Glass  
Tennessee

## A Tale of Two Service Calls

Here are two stories that always give my locksmith friends and I a good laugh.

It was Thanksgiving 1983 when it was my turn to be on call for a large

locksmithing company in New York City. My beeper went off right after eating. It was a concerned relative whose brother never made it to dinner and he feared the worst had happened.

After 20 minutes of driving I arrived on the scene. He had two female N.Y.C. police officers waiting with him. The N.Y.C. police will not open any door unless it is an extreme emergency. He told me that they had tried the phone and had pounded on the door very hard, but the radio was on, so he felt that his brother was definitely in there.

The door had three locks on it, a Medeco 10-200, a Medeco 10-300 and a Fichet rim cylinder with the heavy guard plate. After half an hour of drilling I had the two Medeco cylinders off of the door. Now came the worst part of the job.

I was about halfway through cutting the Fichet off the door with my heavy-duty grinder which was loud, especially in the apartment hallway. It was loud enough to wake the dead.

Then it happened—the door flew open. My first thought was that this guy was going to shoot me. Instead all you could hear was intense laughter coming from the two female officers.

Out of the door came this stark naked, stoned, space cadet. Needless to say there wasn't a dry eye in the house. That little incident cost that poor guy almost \$500. Expensive little bit of partying.

The other story is much shorter but, all of the locksmiths who open car doors, will appreciate this.

Last September I was called to open a Nissan Sentra. When I arrived there was a local police officer there. (They still open car doors here and we all hate that.) He had tried unsuccessfully to open the door. I got out of my truck with my Slim Jim in hand. I went to the car and inserted the jim. At that moment the cop came over and started to say "That tool won't..." Before he could finish the statement the door was open. I then looked at the cop and said "It's not the tool it's the operator. You can't give a hammer to a six-year-old and expect him to build a house." At that the car owner burst into hysterical laughter. It was a good thing that the officer was a friend otherwise every time he saw me I'd have a ticket for something.

Harry Swinnes  
New York



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## Advertising Advice For Manufacturers

I'd like to make a few suggestions to the manufacturers who advertise in *The National Locksmith* and the other locksmith magazines.

First, when you advertise a specific item, give us a suggested retail price somewhere in the ad. That way, if we come across a situation where we could sell our product, we could give the customer an idea of what the job will cost without pestering distributors over the phone. Save us from calling the manufacturer, usually out-of-state and many times without an "800" number, just to get a price.

Secondly, there are a handful of manufacturers who don't even want to be bothered by you if you're not a distributor. When a locksmith takes his time and often his expense to call you, he's obviously interested in *your* product. It would be to your advantage to take the time to talk to him. Supplying him with the information he needs will probably benefit you in the long run.

Last, but not least...have sales literature printed up that's geared to the "end user." When a locksmith requests, give him 20 or so copies to pass along to

his customers. Remember, the locksmith is literally your "man in the field."

Bobby De Weese  
Maryland

## Keyblank Modification Suggested

I would like to suggest to our industry that all keyblank manufacturers cut the key ring hole in the bow of the keys no smaller than 3/16". The reasons for this are self-evident. If you are tired of having to file or drill to enlarge these holes so your customer's key will fit his keyring or so the key will fit your peg-board hook, then I suggest you write to your blank manufacturers and request they do this. The dies they use to make these blanks don't last forever and when they are replaced the holes could be sized up at no added cost to them.

It takes less time to write a letter than it does to enlarge the utility hole on one keyblank. If everyone will write and request this I am sure the manufacturers will be receptive.

Jim Adcock  
Pennsylvania

## Thanks From National Locksmith Award Winner

Here is a picture of the 1989 National Locksmith plaque. It is now hanging on the wall in the showroom of our shop. Thanks again. I'll always treasure it. We just received a copy of *The*



*National Locksmith's Flat Rate Manual. It will be very useful.*

Dorothy G. Friend  
Nebraska

*Editor's Note: Dorothy was the recipient of the 1989 The National Locksmith award. Congratulations again Dorothy.*



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# Enter the 1990 Technitips Contest

\$\$\$ Thousands and thousands in cash and prizes! \$\$\$

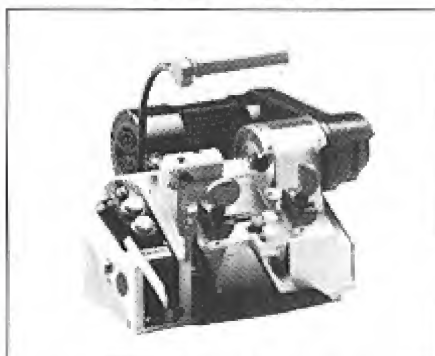
**HPC Laserpoint**



**First Prize**

This is HPC's ultimate key duplicator for high security keys, BMW, Mercedes, DOM, Kaba, Volvo and others. Laserpoint is heavy duty lever operated, and has easy adjustable cutters and tracers.

**Silca Bravo USA**



**Second Prize**

Locksmith designed, the Silca Bravo USA is a quality semi-automatic duplicator. Four-way jaws hold even the smallest keys as this. One of the most accurate key machines on the market.

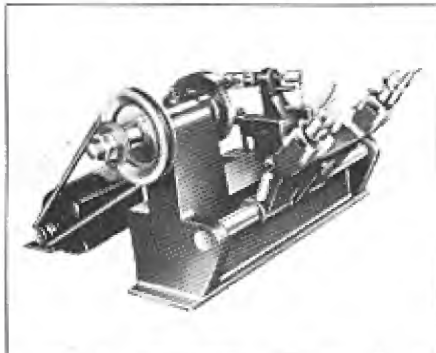
**ESP 660**



**Third Prize**

The model 660 key machine can be used for manual cutting or, with the flip of a switch, it will cut keys automatically. It is designed to accommodate large head keys such as hotel and foreign auto blanks.

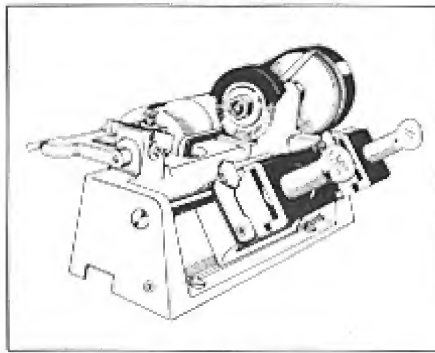
**Belsaw 200**



**Fourth Prize**

Duplicate, cut by code, cut flat steel keys. Complete machine with motor, three cutters, guides, and instructions. Built-in micrometer.

**HPC 9120**



**Fifth Prize**

HPC's newest and most compact key cutting machine features reversible jaws. Double-sided copy dog cuts flat steel and safety deposit keys and has softy brush. Excellent versatile machine.

**\$100 Cash PLUS  
Flat Rate Manual**



**Sixth Prize**

\$100.00 in cash will brighten your day! So will the *Flat Rate Manual for Locksmiths*. The manual will help you price your services for profit. You won't have to guess how to price ever again.

\*\*\*\*\*

Code Books From *The National Locksmith*

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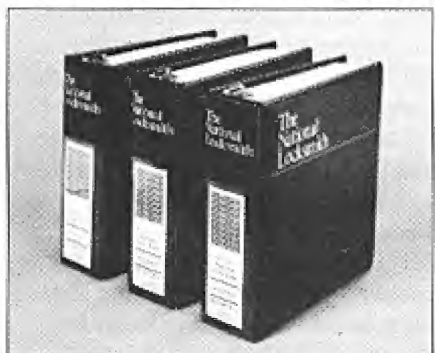
**General Code Book Set (NGCB)**



**Seventh Prize**

These three books contain 450,000 codes covering domestic lock and automobile codes.

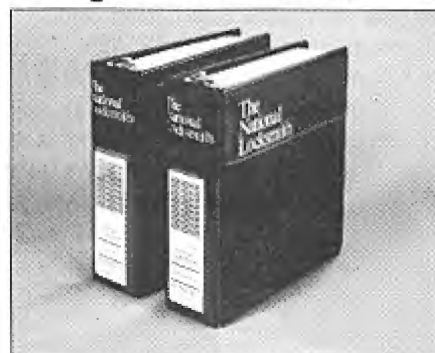
**Padlock Code Book Set (NPCB)**



**Eighth Prize**

These three volumes offer 462,000 covering Dudley, American (Junkunc), Master and Yale.

**Foreign Code Book Set (NFCB)**



**Ninth Prize**

This two volume set holds 432,000 codes for the complete variety of foreign codes, from Alpha Romeo to Yugo.



# Technitips

Helpful Hints from Fellow Locksmiths



Send me your Technitips. Who knows, you may be our next winner! c/o The National Locksmith, 1533 Burgundy Parkway, Streamwood, IL 60107.

by Robert Sieveking

Here's important news. All-Lock has kindly offered to award one of their new VATS interrogators each month. The interrogator will be awarded to the best automotive tip each month, so let's get those tips in folks. Also, don't forget to send your tips in on other interesting subjects. Those tips could win you a key machine!

This month's Technitips are a reflection of the new and old. Some old tips that have been revived to fit new needs and a new tip that solves an old problem (fixed actuators). One statement that I recall from one of the tips is, "After exhausting all the standard methods, what began as a last resort proved to be a reasonably simple and satisfactory solution to the problem."

To all those that find their Technitips printed this month, congratulations.

Thank you for your participation. Your willingness to share your best ideas and discoveries benefits us all. To all those that sent tips that we were unable to print this month, thank you also. Your entries have not gone unnoticed. This year's competition is building with each month that passes. Though the year is yet new, get with the program and write some Technitips. Those locksmiths that participated last year are cutting keys on new machines and looking up codes from the best code library in the industry. Why didn't you win last year? Did you enter?

A very wise man once said, "People are where they want to be." If you want to stand in the winner's circle, you have to do something worthy of recognition. Think about that as you read Technitips this month. You are looking at the work of nine distinguished locksmiths. Their work is exhibited here in recognition of their craftsmanship and efforts. This is the winner's circle. Well done.

Don't tell me how good a locksmith you are, show me. When I see those fantastic Technitips you send, I'll make sure the rest of the industry sees them too.

## March's Best Tip

The subject of this Technitip is the repair or adjustment of worn mortise cylinders, to restore proper operation, without necessarily replacing the cylinder. I've even used this technique on a few new cylinders lately because they were poorly machined.

This type of wear problem is most common on outswinging doors that have a latch bolt retracted by the action of the mortise cylinder. Each person opening the door turns the key to retract the latch, and then pulls on the key to open the door, against the pressure of a door closer in most cases. This extra wear on the cylinder, multiplied by the number of tenants in a particular building adds up to a regular call to repair the cylinder because the tenants "can't get their keys out of the lock." If you push in on the face of the plug while pulling the key, the key will come right out of the lock.

Assuming that the cam screws are tight, and you find excessive "end

## How To Enter

All you need to do to enter is submit a tip, covering any aspect of locksmithing to *The National Locksmith*. Certainly, you have a favorite way of doing things that you'd like to share with other locksmiths. Why not write it down and submit it to: Robert Sieveking, Technitips' Editor, *The National Locksmith*, 1533 Burgundy Parkway, Streamwood, IL 60107.

Tips submitted to other industry publications will not be eligible! So get busy and send in your tips today! You may win cash, merchandise, or even one of many key machines or code book sets! At the end of the year, we choose the winners of the listed prizes.

Last year dozens of people walked off with money and prizes. Wouldn't you like to be one of the prize winners for 1990? Enter today! It's a lot easier than you think!

## Every Tip Wins 'Locksmith Bucks!'

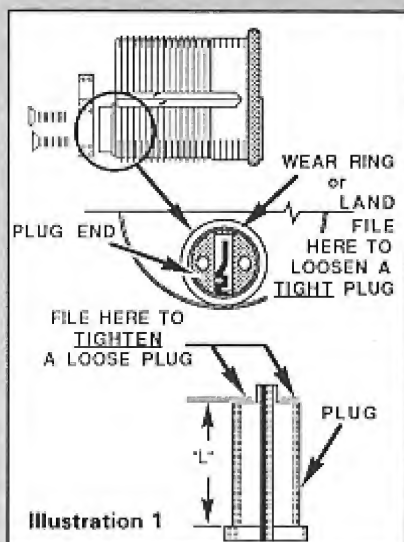
Yes, every tip published wins a prize. But remember, you must submit your tip to *The National Locksmith* exclusively. Each and every tip published in Technitips wins you \$25.00 in Locksmith Bucks! Use this spendable cash toward the purchase of any books or merchandise from *The National Locksmith*. You also receive a Bonded Locksmith bumper sticker, decal and patch. Plus you are now eligible for the really big prizes!

## Best Tip of the month prizes!

If your tip is chosen as the best tip of the month, you will win \$50.00 in cash as well as \$35.00 in Locksmith Bucks! Plus you will receive a quartz Locksmith watch, a Bonded Locksmith bumper sticker, decal, patch and a Locksmith Cap. Plus, you may win one of the annual prizes.



play" or "slop" between the plug and cylinder, the plug will have to be adjusted. For the key to pull easily, the plug should have only a few thousandths of an inch end play or clearance. If the plug has too much end travel, the key pull will cause the bottom pins (in the plug) to be misaligned with the holes in the cylinder, and prevent the key from being removed from the plug. The wear ring or land on the rear of the



cylinder wears, reducing the length of the cylinder.

To restore the cylinder to proper operation, carefully file the rear of the plug as shown in illustration one. This will decrease the length "L," of the plug, to compensate for wear of the wear ring. Be very careful to remove only a few thousandths of an inch, then test the cylinder. File both sides of the plug evenly. If you file too much from the plug, it will become too tight to turn freely when the cam screws are tightened. You can lightly file the wear ring to gain end clearance again.

This is an old trick, but I'm sure you'll find it handy for improving the smoothness of cylinders you find that are either too tight or too loose.

Bill O'Dwyer  
Connecticut

\*\*\*\*\*

After reading the January issue, on defeating the automotive shields in the new Toyotas, I had to send this Technip on how I defeated a couple of the new Toyotas and Geo. Without getting

too involved with the story of how long it took me to finally decide to use this technique, suffice it to say that what I had originally thought of as a last resort, turned out to be a reasonably simple solution to the problem of opening this auto.

As you know, the rigid pawl of the Toyota lock prevents the door from being unlocked using the linkage that runs to the rear of the lock. Not true. If you intentionally and carefully disconnect the linkage, and push down on the disconnected lock rod, the door can be unlocked.

Using a Slim Jim, carefully flip up the bright orange lock rod clip on the lock pawl. Then slide the lock rod out of the lock pawl with an "L" tool. At this point, you can see that pushing down on the linkage with the Slim Jim or any other tool while holding the lock rod with the "L" tool will unlock the door.

Once the door is opened, it is fairly easy to replace the linkage without disassembling the door. Roll the window down and wedge the glass to give yourself enough room to work with the lock rod. Guide the end of the linkage back into the plastic rod clip with an "L" tool or hook type wire tool and push the



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plastic rod clip back to its original position with a Slim Jim. This method also works on a Geo Prism.

Some methods are easier than others, but even as a last resort, this method really works quite well. With a good flex light in the door, you can see to manipulate or move almost anything. I have some ideas on making a better tool for removing and replacing (reclipping) the plastic rod clips.

Rick Wilkinson  
Utah

*Editor's Note: Let's see those ideas on removing and reclipping the rod clips.*

\*\*\*\*\*

This Technitip is for an easy way to service the new Kwikset leversets when the cylinder removal key is not available.

When new, these locks are supplied with two customer keys, cut on six pin blanks, and a third key, called a cylinder removal key, cut on a special seven pin blank. The primary difference between the operating keys and a cylinder removal key is its length. The extra length of the cylinder removal key allows it to depress the cam inside the lockset when inserted fully into the keyway. The key can then be rotated 180 degrees to release the outside han-

dle and remove the cylinder.

The problem occurs when you are called to service one of these locks and the customer has lost the cylinder removal key. Should this be the case, the cylinder can easily be removed by following these steps: 1) Remove the lockset from the door. 2) Pull the spring-loaded spindle out, about 1/4", as shown in illustration two. 3) Insert the customer's working key into the lock and rotate it 180 degrees. 4) The handle and cylinder can now be removed for service.

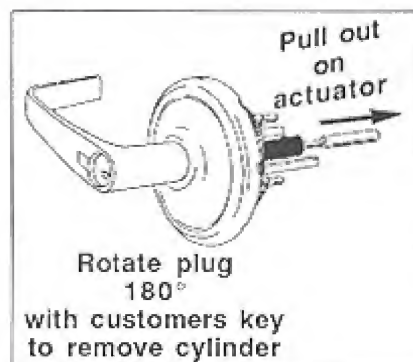


Illustration 2

When reassembling the lock, simply reverse the above steps. Test the operation of the lock to insure that it locks and unlocks, and that the cylinder will not rotate far enough to remove the cylinder or handle.

This Technitip will save you and your customers the time and expense of cutting two cylinder removal keys, on expensive blanks, one for disassembly and one for reassembly, each time this lock is rekeyed.

Keith Hamilton  
Ohio

\*\*\*\*\*

This Technitip is a quick method of manufacturing small coil springs for mortise locks. To facilitate manufacturing coil springs for special sizes and wire gauges, I have often found it necessary to wind my own springs. A method that has given the best results is shown in illustration three.

Chuck up a piece of round stock in the drill press that is about 75 percent of the diameter of the desired spring. This will be the spring mandrel. Loosen the drill chuck just enough to slip the end of the music wire that you have chosen for the spring under one of the jaws as shown. Grip the end of the music wire in a pair of locking pliers, leaving enough stock to form the completed spring without repositioning the pliers. Put enough pulling tension on the music wire to keep it tight to the

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(X54 Taylor) key and on the other side I duplicated the key to my Mitsubishi car. (See illustration 4.) Now I have one key that will operate the locks of both vehicles. This is really the same as the old trick of cutting the Ford double-sided keys on either side to fit two Ford vehicles, but updated to work on some of the late model foreign autos.

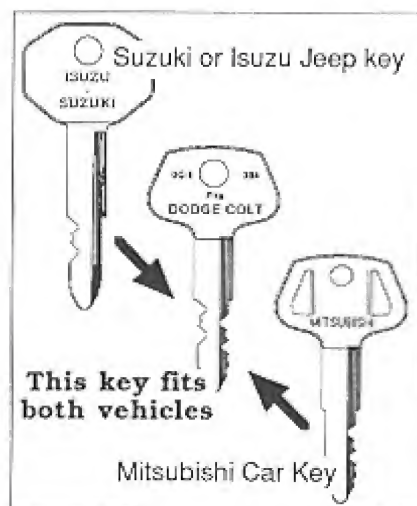


Illustration 4

Jose Perez  
Puerto Rico

\*\*\*\*\*

Here is a Technitip that you may find useful if you service automotive locks on a regular basis. I have noticed, that after disassembling and reassembling the door lock of some foreign autos, to rekey or make a first key for the lock, that the lock works hard. This is sometimes because the cap was crimped on too tightly. A simple solution to this problem is to hold the lock cylinder in one hand and rap the rear of the lock plug with a rawhide mallet. This will loosen the clearance between the inside of the cap and the top of the plug, easing the operation of the lock. Always coat the lock plug with a little petroleum grease (not lithium or white grease). This will prevent oxidation-corrosion in the lock, and insure smooth operation of the lock.

Thomas Rucker  
Ohio

\*\*\*\*\*

This Technitip is in the form of a "Heads Up" to those locksmiths, new to the trade, that may run across a tear gas load on a safe door while performing a simple combination change.

I am sending photographs of some tear gas devices that we encountered in the last few weeks. Photograph five



5. A two vial tear gas device.

shows a typical two vial tear gas device. It was installed behind the wheel pack of a Halls safe. If the dial had been pulled and the wheel pack punched into the safe, the vials would have been crushed, releasing the tear gas. Because many of the older fire safes were easily opened by punching the wheel pack into the safe, these tear gas units became very popular as a method of increasing the burglar resistance of an otherwise vulnerable safe.

Photograph six shows a rear view of this particular gas unit. The tear gas liquid is about the color of light oil. The glass vials are of extremely thin glass

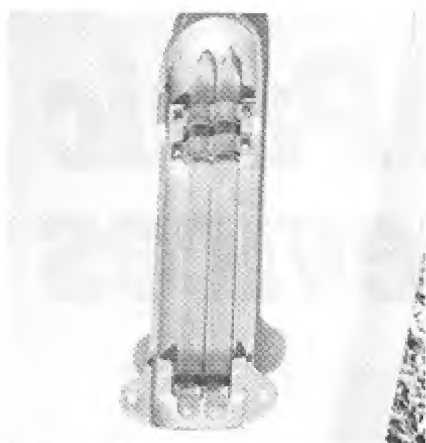
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6. Rear view of the tear gas unit.

and are very fragile. Most times you will find the vials cushioned with cotton or live rubber where the clamps hold them in place. The rubber deteriorates with time and can leave the vials free to rattle or move from their safe position under the shield.

A second type of gas safe protector, which we found on an old Mosler safe, is shown in photograph seven. This safe had a label on the outside of the door that simply said, "Poison Gas." The sticker had been on the door so long that it could hardly be read. We had the fire department remove the unit and destroy it.



7. Gas safe protector found on a Mosler.

Photograph eight shows the vials in the THESCO unit. When they broke the vials, they said it smelled like rotten eggs. This device was manufactured by THESCO, a company from Albine Texas. The fire department called Albine, but only found that the company was no longer in business.



8. Vials found in the THESCO unit.

It is my understanding that a good number of these units were sold and installed on safes in the West Texas area by the company that manufactured the units. If you find one, handle it carefully, as the tear gas in the vials is quite powerful. If you break one of these vials, in a place of business, while changing a combination or servicing a safe lock, you will definitely never forget the experience.

Juanita Ramsey  
Texas

\*\*\*\*\*

Sometimes, when called to replace a mortise cylinder, we find that the customer needs a six pin cylinder, and all that is immediately available in the desired keyway, is a five pin cylinder. I would like to offer the following Technitip as a method of substituting a shorter cylinder until the proper cylinder can be found.

The major reason that the short cylinder will not work is that the key is prevented from fully entering the plug by the cylinder cam. The connecting portion at the bottom of the cam hits the bottom of the key and prevents the key from fully entering the plug. By cutting away the bottom portion of the

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# Newsmakers

## New Products and Industry News

### Master Lock's New Utility Padlock

A new utility padlock by Master Lock helps increase security while reducing maintenance costs for vending machines and industrial equipment, such as electric meter rings and boxes; gas, water and steam valves, and commercial refrigerators and deep-freeze units.

Constructed with a single, case-hardened post shackle, this new padlock eliminates the part of a lock most susceptible to attack—the loop of the shackle. The  $\frac{3}{8}$ " diameter shackle secures locking holes with  $7/16$ "- $9/16$ " diameter openings.

The Master utility padlock is available in either a laminated steel case or laminated brass case with a chrome-plated shackle. Both padlocks are available with  $\frac{5}{8}$ " and  $\frac{7}{8}$ " shackle clearances, and the No. 443 also comes with a  $3\frac{1}{2}$ " shackle clearance.



### Arrow Lock Issues Condensed Catalog

A new 20-page condensed hardware catalog is available from Arrow, containing detailed feature and specification information on the company's broad range of locks and accessories, door closers, exit devices, and alarms.

Set in an easy-to-read format utilizing concise product descriptions, cross-sections and photos, the catalog highlights mortise and cylindrical locks, along with related knob and lever designs and functions, auxiliary locks, doublelocks, and interchangeable cores.

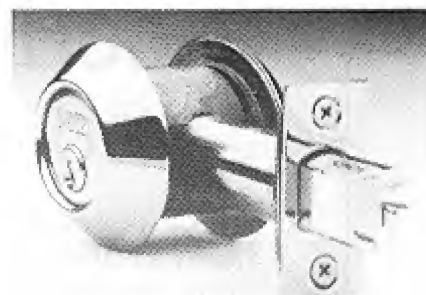


### LoriBolt Features Self-Locking Latch

Lori Lock has developed a new deadlock with a unique self-locking latch. Crafted with a one inch stainless steel deadbolt and solid brass cylinder, the new LoriBolt automatically throws the deadbolt when the door is closed. No key is needed to lock the door.

The deadbolt is applicable to either retrofit or new construction. Lori cylinders are available in 21 most popular keyways including Kaba High Security. New LoriBolt features a stainless steel deadbolt for durability and security and fits standard bored cutout—160 or 161 prep,  $2\frac{1}{4}$ " bore.

The latch is available in either  $2\frac{3}{4}$ " or  $2\frac{1}{4}$ " backset, and strikes are available in ASA configuration. Latches and strikes can be ordered separately to mix and match inventory.



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National Auto Lock Service, Inc. offers a wide range of equipment and services for the Automotive Locksmith. From tools and hard to find key blanks to transponder programming, we can take the mystery out of car service. We accept credit card orders, and can ship COD. Contact us for the latest in automotive technology.

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## Briggs & Stratton Provides GM Key Covers

Bubble packed GM key covers are now available from Briggs & Stratton Technologies. The covers slip on easily over standard GM keys and come in four exciting colors for easy identification.

These covers are an inexpensive and high profit item for the locksmith. They are packaged in attractive see-through bubble packages.

Please order under B&S part numbers: cherry red, 701332; portsmouth grey, 701333; black, 701334; and mediterranean blue, 701335.

GM key covers are available from your authorized B&S distributor.



Circle 385 on Rapid Reply

## McGunn Announces Time Delay Access

Time delay access locks, now available on all McGunn safes, deter armed robbery and violence from occurring by preventing robbers from gaining immediate access to a safe.



Before the invention of the time delay locking system, owners or employees were often taken out of their homes at gunpoint and forced to open a safe for robbers. However, with the use of time delay access, up to 75% of robber-

ies may be prevented, as in the case of a Domino's Pizza operation in Virginia, where a robber put away his gun and left when the manager told him the store's cash was in a 15 minute time delay safe.

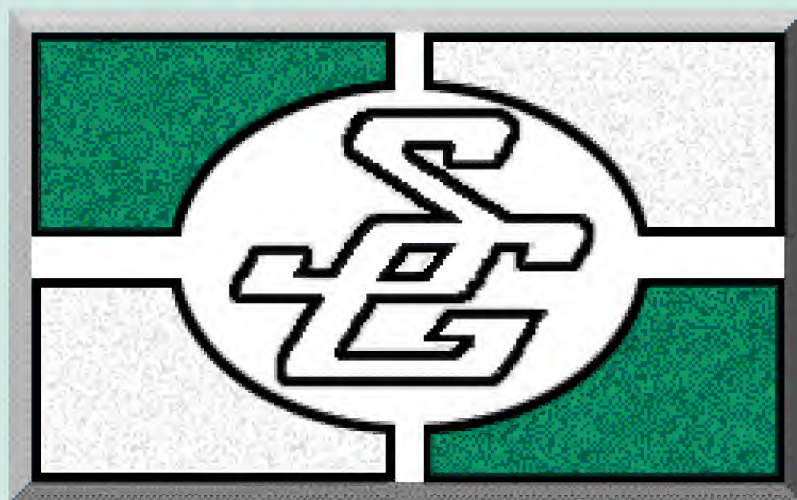
Circle 386 on Rapid Reply

## Wilson Safe Adds To Diplomat Line

Wilson Safe Company has announced an addition to the Diplomat fire safe line. Model JH-065 has the extra width and depth to accommodate cash drawers. The interior dimensions are 16½" x 16¼" x 16¼" and it is one hour fire rated. Standard features include a key and combination lock, spring-loaded relocker, adjustable shelf, and keylocking interior drawer. The approximate weight is 295 pounds.

Wilson Safe is a wholesale distributor for Diplomat, Reliance, Amsec, U.S. Security, Aanon, National Security, Fichet Bauche, and original high security safes. A large in-house inventory in both Philadelphia and Chicago warehouses allow for quick shipment to all parts of the country.

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## HPC Adds To Tubular Pick Line

The Super Pick (No. TLP-SPR) is a one-of-a-kind tool designed to pick and decode disc tumbler locks in seconds. Often these locks can be opened with this tool as fast as they can be opened with the key.



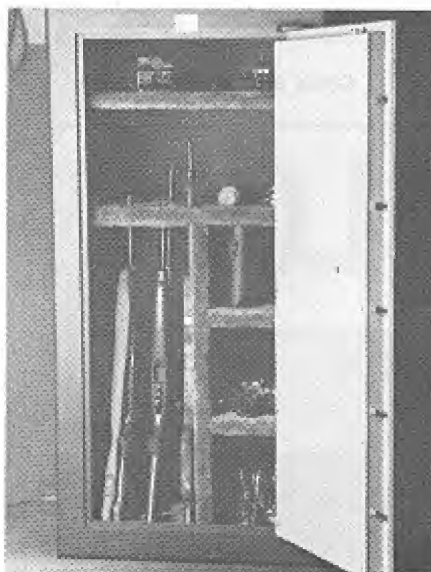
The disc tumbler tubular lock is commonly used on real estate padlocks and "lock boxes," though cam lock and switch lock applications are increasing in popularity. The design of this lock is similar to that of an ordinary tubular lock, but it also has a number of substantial differences: the overall size of the keyway is smaller; it is operated by disc tumblers; it has only six of these tumblers; and they are located on the inside wall of the keyway.

Circle 388 on Rapid Reply

## Eclipse Improves Formed Body Safes

Eclipse Industries has announced a number of product improvements in their full line of formed body safes. Among these is a larger door opening, which permits secure storage for large, bulky items.

Eclipse has improved the heavy bolt work on the top and bottom of safe doors for models 60" high and above.



The manufacturer states that the improved bolt work, along with the five standard side bolts, will provide more positive locking action, smoother bolt work and better security.

Circle 389 on Rapid Reply

## American Lock & Supply Opens Long Island Branch

American Lock & Supply, Inc. enhanced its East Coast position by opening a 15,000 square-foot branch in Hauppauge, NY. The Anaheim-based lock and door hardware distributor also moved its Melville sales personnel into the new office facility. The addition of the New York warehouse brings AmLok's branch total to nine.

"Since we opened the sales office in August, sales have been extraordinary," said President Sean DeForrest, "so a full-stocking branch was not only warranted, but necessary to better serve our East Coast customers."

The New York branch's sales operation consists of four very experienced lock industry telemarketers: Ellen Scheiner, Mike O'Leary, Larry Barnes and Mike Podlaski.

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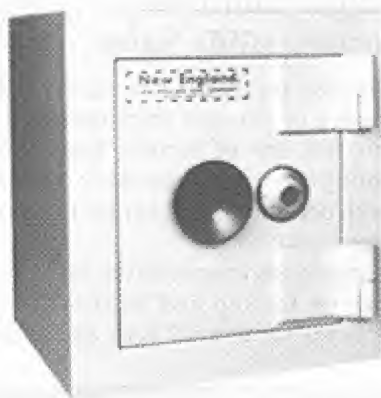
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## New England Safe Offers Complete Range

New England Safe Co. of Boston, MA now offers a complete range of composite body with plate door safes in addition to full composite safes with a composite body as well as composite door.

Available in various sizes, these safes offer both fire and burglary protection all in one safe. All safes have a U.L. labeled combination lock and either shelving or cabinet interiors depending on size. This is a medium priced heavy duty safe, with a plate steel face.



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## The Keysure Lockbox Offers Tenant Security

Keysure is a pilfer-proof plastic container for storing keys that are given to another person. Keysure makes it possible to identify unauthorized or illegal use of keys.

The key owner signs his name on both inside surfaces of the container. The two signatures placed inside the Keysure act as a seal. They prevent someone from breaking the Keysure open, using the keys and then returning them to another Keysure. After sign-



ing, the keys are placed inside the Keysure. It is then closed by "snapping" both halves together which "locks" it. Finally the outside of the Keysure is identified with a code number, code name (example: mother's maiden name), or both.

Once the Keysure is closed it cannot be opened but must be broken to gain access to the keys inside. The breaking procedure breaks the seal and signature, clearly indicating that the keys have been used or tampered with.

Circle 395 on Rapid Reply

## Jet Hardware Announces 23 New Blanks

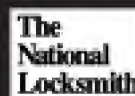
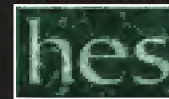
Jet Hardware Mfg. Corp. has announced the addition of 23 new line items consisting of standard, interchangeable core, foreign automotive and hotel/motel key blanks. Added to their complete line of interchangeable core series is the Best 1A1DD1, 1A1R1 and Arrow's 1C and 1D. Also in nickel silver, Schlage's 101FG and 101H.

All of Honda's current models have been updated. Now available are Corbin's 059AD-6 and 059AD-7 for 6 and 7 pin. Both National D8783 and Chicago's K101 through K104 are now manufactured.

In their hotel/motel series, you will now find Corbin's 057AD-6 and 059AD-6 along with Schlage's 100H and 101H large bow key blanks.

Circle 392 on Rapid Reply





# Yaletronics Touchcode Mortise Lock

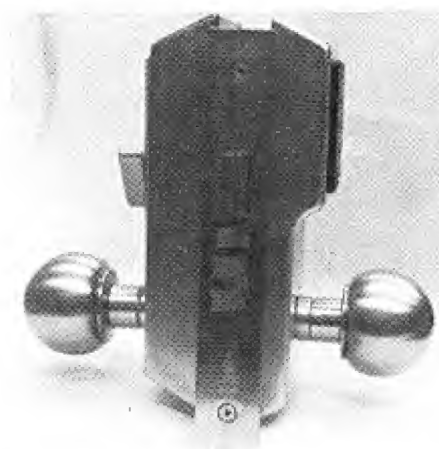
"Powered by eight AA batteries which should provide daily operation for one year, the unit appears to be well engineered for long, trouble free service."



Send your lock and key questions to Jack Roberts, The National Locksmith, 1533 Burgundy Parkway, Streamwood, IL 60107.

by Jack Roberts

We recently had the opportunity to review for you the Yaletronics Touchcode cylindrical lockset. At that time we looked forward to having a session with the Touchcode mortise lockset at some point in the future. The time has come and we were able to have a knock-down, drag-out with a rather impressive piece of hardware. (See

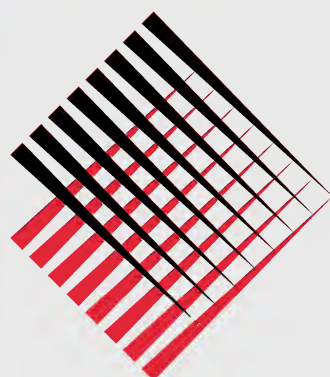


1. The Yaletronics Touchcode mortise lockset.

photograph 1.)

To touch briefly on the purpose and application of the Touchcode system, it is a keypad controlled, self contained (no outside wiring required), electronically operated mortise lockset derived from the heavy-duty Yale 8700 mortise lock. The keypad offers versatility in that keys or cards are not necessary for the operation of the lock and combinations (codes) can be changed quickly and easily. Also, any one or all three of the operating codes can be "locked-out" with a special code when required.

A management or executive code, similar to a master key, will operate the



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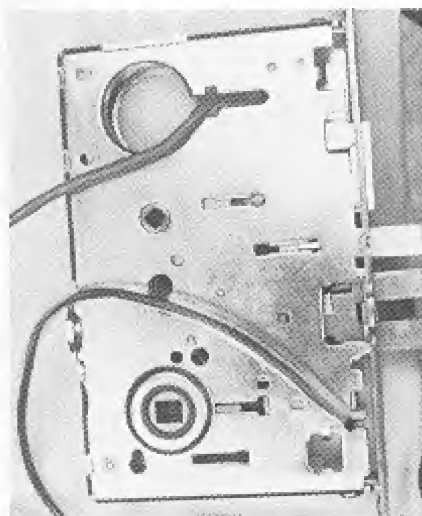
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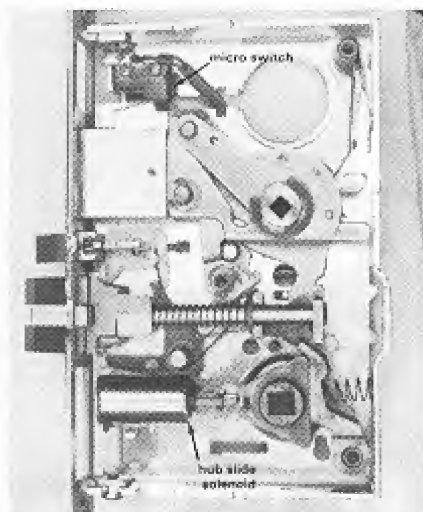








3. Wire properly routed through the mortise cavity.



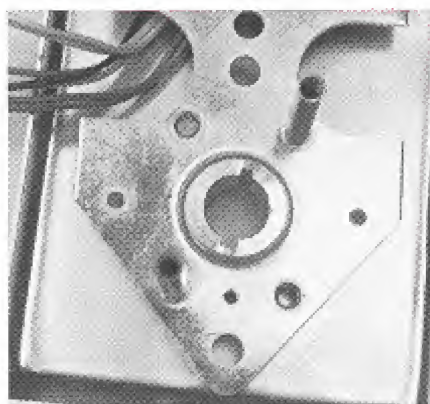
4. Interior view of Model 2722.

leads to the hub locking slide solenoid. (See photograph 4.)

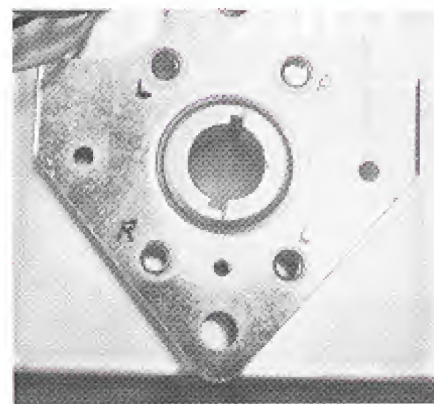
You should note that on those models without a deadbolt the micro switch and its related wiring are not included. The function of the deadbolt micro switch is to lock out all operating codes except the executive or master code when the deadbolt had been thrown to the locked position.

The exterior esutcheon must be prepared to match the hand of the door by the installation of two mounting posts as shown in photograph five. These posts extend through the body of the lock and holes "C" for attachment of the interior escutcheon mounting plate and must be properly handed.

In photograph six, we have marked the locations for RH and LH installations. It would seem that these identifiers could be stamped into the mounting plate during production as an aid to the installer. The instruction sheet clearly shows the proper positioning for these posts, but some folks just aren't inclined to read the instructions



5. Exterior escutcheon with mounting posts installed.



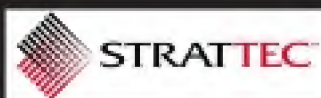
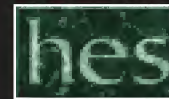
6. RH and LH installation locations marked.



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before they start to work. A permanently mounted post at the top of the mounting plate extends through the door at the upper hole "C" location.

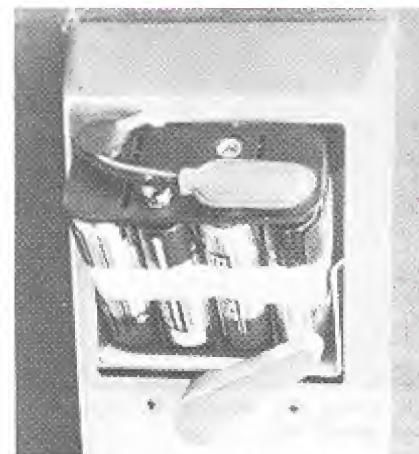
Carefully routing the control board wiring harness through lower hole "C" the exterior escutcheon is positioned on the door. Check to insure that all wiring is clear of any potential damage from pinching when the unit is secured. Next, place the interior mounting plate into position with the thumb turn shaft inserted into the lock body. The through hole of the shaft should be in a vertical position.

Now, secure the interior mounting plate with three screws provided for the mounting posts, again checking that all wiring is clear. The battery pack can now be placed in the holder located on the interior mounting plate with the terminals towards the top. Electrical knowledge for the installer is about as simple as one could hope for. For

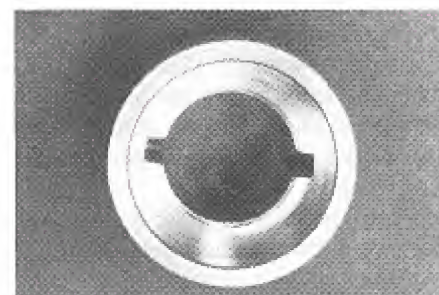
example, attach the red connector from the control board to the red connector from the solenoid and the white connector from the control board to the white connector from the micro switch, attach the battery clips and your electrical work is finished.

The battery pack, of course, can be installed and/or replaced after the interior escutcheon is mounted on the door. (See photograph 7.)

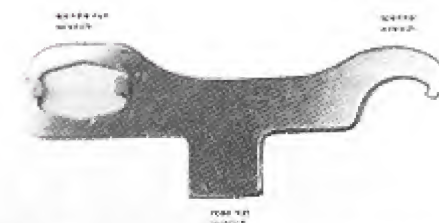
The interior escutcheon is installed by hooking the inner lip onto a flange at the top of the interior mounting plate and aligning the knob hole with the threaded portion of the mounting plate for installation of the rose nut. (See photograph 8.) Yaletronics supplies with each unit a combination spanner, rose nut, spindle nut wrench, (see photograph 9), which makes final adjustments of the installation a breeze. The rose nut portion fits into the inner grooves of the rose and the outer and



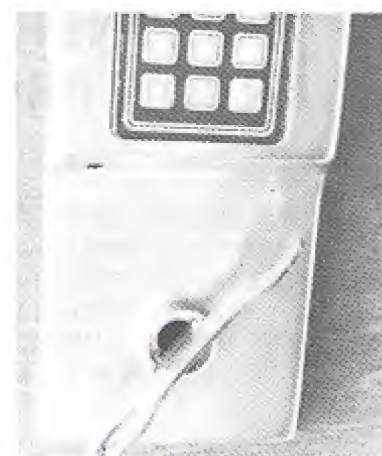
7. Battery pack properly installed.



8. Rose nut.



9. The combination wrench supplied by Yaletronics.



10. Tightening the inner and outer rose nuts.

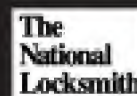
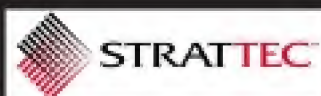
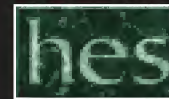
inner rose nuts are tightened securely. (See photograph 10.) Nylon knob bushings are then inserted into both rose nuts.

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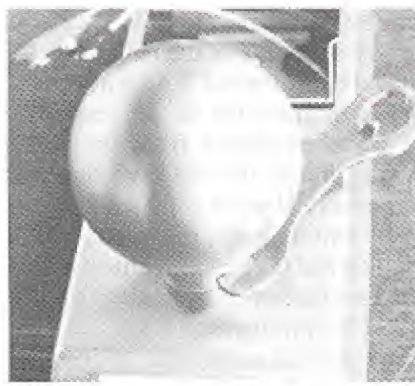




11. Using the wrench to tighten the spindle nut.

With the interior knob removed from the spindle, the outer knob and spindle are inserted into the lock body and the interior knob sleeve placed over the spindle and into the rose nut. The spindle nut is then screwed onto the spindle and tightened with the spindle nut portion of the wrench. (See photograph 11.) The spindle nut should be tight enough to eliminate any play between the two knobs but not so tight that free movement is impaired.

Place the interior knob on the spindle and screw the knob sleeve onto the threaded portion of the knob (counter clockwise). Tighten the sleeve securely with the spanner wrench portion of the tool. (See photograph 12.)

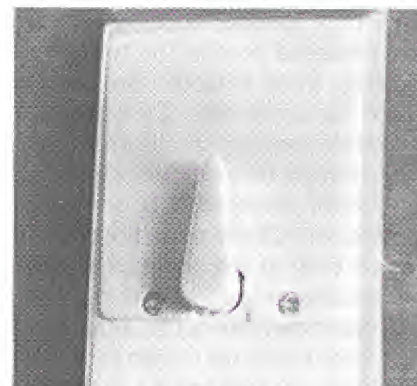


12. Spanner wrench function used on the interior knob.

The thumbturn is now placed on the deadbolt shaft and secured with the furnished 6-32 x 1/2 screw. With the battery pack installed, position the battery cover and secure with phillips head or anti-tamper screws provided. (See photograph 13).

The unit is now ready for testing by checking for smooth operation of all components and by touching in each of the codes shown on the factory program sheet which accompanies each lockset.

When all systems are go, install the strike plate, check for proper alignment of the latch and bolt, and the installation is complete. Complete and easy-to-follow instructions are included



13. The unit with the thumbturn and battery pack cover properly installed.

with each Touchcode lockset for changing unlock codes, lockout codes, beep tone, unlock time, etc. All changes, of course, should be recorded on the program sheet.

Available with 14 different knob and lever designs and eight finishes, the Touchcode mortise lockset can blend nicely into any existing hardware installation and those locksets with mechanical key override can be keyed to any Yale system including the removeable core.

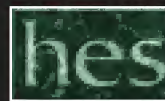
For more information contact: Yaletronics, P.O. Box 25288, Charlotte, NC 28229-8010, (800) 438-1951, ext. 340. Tell them you saw it here. ■

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## Rodann's Electronic Annunciator

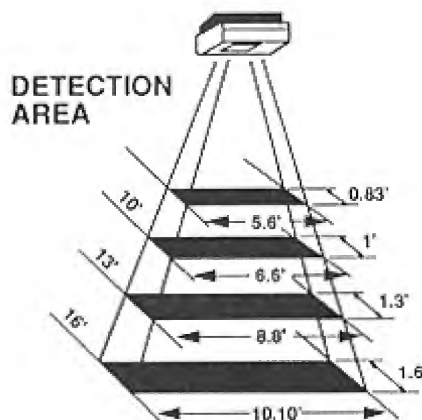
"A pleasant sounding chime greets customers as they enter. The unit has the capability of holding up to four chimes, bells or buzzers."

We all know that service is an important part of business. For a retailer, a dependable electric eye customer announcer can be the difference between good or poor service. When a locksmith sells or installs a lock it's because their customer is looking for protection. It becomes a perfect opportunity to add service and additional protection to the sale with a dependable electric eye customer announcer.

Rodann's newest model, the AV-100 passive infrared motion detector, brings state-of-the-art sensing technology to annunciating. This heavy duty unit works by incorporating high quality parts inspected, tested and assembled in the U.S.A.

This new unit features a detection area that provides full entry coverage, not allowing a person to pass through without being detected. Also, because of its ceiling mount, tampering or destruction of the unit does not occur, and once installed it can be simply forgotten.

The use of pyro-electric detectors that are calibrated to sense human body heat in motion, make this the ultimate door alert system. No more false rings from the sun or car headlights to deal with. Only the true signal of someone entering or exiting a busi-

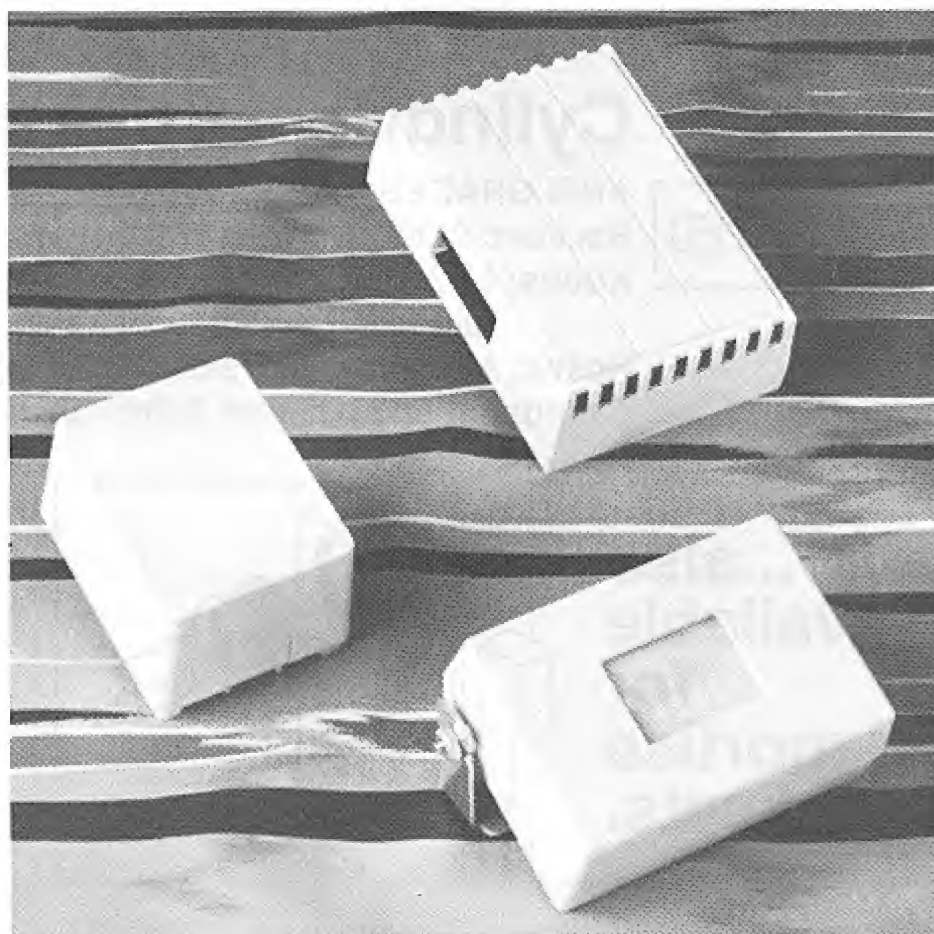


ness is registered.

The easily installed AV-100 is powered by an economical 16 volt, UL approved transformer, which translates to no more batteries to worry about or change. A pleasant sounding chime welcomes customers or clients as they enter. The unit has the capability of holding up to four chimes, bells, buzzers, and/or an electrical counter for counting customers. The complete unit includes a motion detector, transformer, and one chime which sells for one low price. ■



Ceiling mounted unit.



The complete unit: motion detector, transformer and chime.



# Central Station Monitoring

"Customers pay a monthly fee for the monitoring service. In many cases, the locksmith can collect a portion of this fee each and every month."

*As you may already know, selling and servicing alarm systems can be a profitable aspect of the security business for those locksmiths with the proper training and knowledge. But did you know that your contact with the customer does not disappear after the system is installed?*

*A professional alarm system will be connected to a central station monitoring bureau. This service will feature state-of-the-art equipment to monitor the conditions of the alarm installed in your customer's facility. Should fire, police, or even medical emergencies occur, the monitoring company will be the first ones alerted. They, in turn, will contact the proper authorities.*

*Customers pay a monthly monitoring fee for this service. In many cases, the security firm which installed the system collects a portion of this fee generated each month. Therefore, security firms provide a good system, but also profit from the on-going monitoring fees.*

*In this section, you will read information about several different monitoring stations. Thus, you will learn more about this interesting aspect of the security industry.*

## Monital Central Station Services



Locksmiths know the increased importance that customers are putting on security. This translates into increased revenue in all areas of security installation. But an important source of additional revenue is often overlooked by the locksmith, the choosing of a central station.

When you install a monitored system, you are not only looking after the customer's best interests, you are assuring yourself of a guaranteed, recurring source of income each month. Typically, the central station bills the dealer for a set price per account each month. The dealer in turn marks that up 100% or more and bills the subscribers. And your profits soar.

As your client base grows, so will your billing and most locksmiths are not equipped to process a large number of billings. With this in mind, Monital Signal created "Direct Subscriber Billing" whereby monthly statements

bearing the dealer's name are sent out directly from Monital. Monital then forwards the appropriate amount to the dealer in one check each month. It's like having a corporate billing department of your own.

Since you personally installed the alarm system, you'll probably want to monitor the activity of each account that subscribes to a central station. Monital offers a service called "Moni-link" that downloads your client's information from central station to a printer in your facility within eighteen seconds of an alarm incident. Instant information and no activity surprises.

In addition to being a boon to dealers, Monital Signal is a leader in service. An incoming signal is not a simple fact of business, it is a crisis situation and every second counts. An answering service cannot adequately address an emergency, which is why Monital staffs its facility with a trained staff totalling twenty-five operators working three shifts to serve you 24 hours a day, 365 days a year. Each signal is received electronically and processed by a trained professional in a supervised environment.

Aiding these operators is a redundant 500 megabyte NCR computer with 16 terminals on line. The receivers consist of Osborne Hoffman Quick



Alerts with a four phone line capacity and 10 receivers on line. Two receivers are allocated for backup. Receivers on-line also include a Radionics 6500, an ITI and a Silent Knight 9000. All receiver lines are connected to line fault monitors.

In the event of a power failure, a 45,000 watt three phase generator with automatic transfer switch cuts over in three seconds. This generator is powered by natural gas.

Sabotage is virtually impossible; Monital is UL listed and complies with the stringent regulations of that organization. All cables are underground and the hold up alarm is connected directly to the local police department in the event of an attack. All the doors are controlled by card access and closed circuit television. The effects of a fire

are minimized by a two hour rating on exterior and party walls, Grade A fire resistive coating, steel roof trusses and one hour fire rated walls to roof deck for the central station room.

This adds up to dependable service. Combine that with Monital's well documented response time, and you have a central station that can't be beat.

To objectively determine how fast their response time truly is, Monital hired the risk evaluation firm of Crawford and Company to conduct an independent audit of Monital's operation. Every phase of operation was evaluated; duress, fire, burglary and hold up. The certified average response time was 34.66 seconds. To put that in perspective, if a lifeguard was to activate an alarm before making a rescue in an Olympic sized pool, help is on the way

before the victim can even be pulled from the water. No other central station can certify that kind of emergency response.

Guaranteed recurring income, minimized workload, close customer monitoring, fast response time and a secure physical plant translate into better service and increased profits on your bottom line. For more information contact: Monital Central Station Services, Ray Sacks, president at (800) 631-2299.

## Security Central

Since 1970, Security Central, an Underwriter's Laboratory (UL) and Factory Mutual (FM) approved central station has provided quality, low-cost monitoring to many successful dealers throughout the United States. Their commitment to the performance of alarm dealers guarantees a lasting business relationship with your customers.



Security Central operates a completely automated central station and offers many services to dealers including marketing and sales literature, technical assistance, free PROM programming and direct billing. The complete monitoring services include computer hardcopy, receiver printout, voice recordings, automatic dialing on all accounts, supervised opening and closing, activity reports, dealer notification and more.

Security Central monitors via WATS lines—the most cost effective means of monitoring available today. Security Central never charges a set-up fee or initiation fee. New information or account updates can be taken over the telephone 24-hours a day for same day monitoring service at no additional charge. Dealers with access to a facsimile machine can easily forward vital monitoring information to the Security Central office in seconds. FAX service is also available for transmission of reports to dealers and customers. A simple philosophy of a quality product at the best price is how Security Central



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has established itself as a complete monitoring service.

For more information contact: Security Central, (800) 438-4171 (US), (800) 222-2579 (NC).

### Central Alarm Control

When the locks are locked and the alarm is set, who is minding the store? Central Alarm Control has provided alarm monitoring services to enterprising locksmiths since 1982. This fully-computerized monitoring station is listed with Underwriters Laboratories, meeting the most stringent standards for security, equipment redundancy, and emergency backup power.

Keeping on the leading edge of security technology, Central Alarm Control offers digital, radio, derived channel monitoring; computer upload/download of programming; invoicing service for recurring revenue; and industry information dissemination to dealers.

For more information contact: Central Alarm Control, Robert Boudreaux, (800) 288-6522.



N.A.C.C.'s staff on duty at their central station monitoring facility.

### National Alarm Computer Center

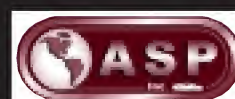
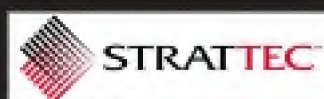
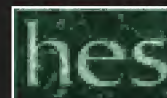
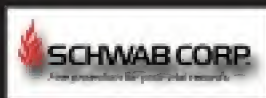
National Alarm Computer Center, Inc. (N.A.C.C.) is proud to announce the opening of its new corporate offices. N.A.C.C.'s new offices provide an additional 9500 square feet of space located on the second floor of the building that contains its central station monitoring facility giving N.A.C.C. Inc. 17,000 square feet of high-tech alarm monitoring.

N.A.C.C. has been providing central station monitoring nationwide since 1979. The central station is a technologically modern facility. The monitoring center is equipped with two massive data general MV 15000 computers that are totally redundant. In the event that one computer fails, the second will automatically handle the signals without interruption. These computers are connected to uninterruptible power signals, ups and the entire alarm room is connected to a diesel driven generator in the event of a power failure.

N.A.C.C. supports the needs of all sizes of dealers, from the very small to the very large. One of the most important aspects of N.A.C.C.'s service is that all monitoring and response is done in the dealers name and image in your community.

For more information contact: (714) 837-1208.





# Security Systems

## Alarm &

The alarm and security industry is becoming more and more attractive to the locksmith. Many manufacturers are now designing with an eye toward your needs. You can, indeed, compete in this profitable aspect of security.

Many manufacturers even offer training and back-up assistance to the locksmith to make installation and service easier. Please look over the products in this section. You can request more information on anything that catches your eye. Simply circle the appropriate number on the Rapid Reply Card.

### Argus Security International Inc.

Argus Security International proudly introduces the Argus 2000 Auto Security System. The Argus 2000 incorporates two tiny three button multifunctional remote control transmitters.

Besides monitoring the doors, trunks, hood and glass against vandals, the Argus 2000 is capable of disabling the starter circuit, flashing the parking lights, locking and unlocking the doors, operating the windows, opening the trunk, starting the vehicle, controlling the garage door opener and more.



Circle 337 on Rapid Reply

### Audio Alert's E-Z Tone

E-Z Tone from Audio Alert Systems of America is operated by a patented magnetic process requiring no batteries or electricity. Its permanent magnet provides all the power that is needed. This magnet will never wear out, providing years of reliable service.

E-Z Tone was designed to fill the needs of the millions of people who want to know when visitors enter or leave their business or homes—virtually anywhere there is a door to be monitored.



Circle 336 on Rapid Reply

### Auto Page Adds To RF Line

Auto Page, Inc., is introducing a new addition, the RF-04, to its line of RF Series alarm systems.

The RF-04 is a new, versatile, portable unit, powered through the vehicle's cigarette lighter and controlled via a remote mini-transmitter. The unit contains a back-up battery (9-volt alkaline or ni-cad) allowing extended alarm signal. With the plug-in cigarette lighter adapter, the system can be transferred from one vehicle to another, including rental vehicles.

A built-in LED on top of the unit gives a short signal when the lighter-adaptor is plugged in.



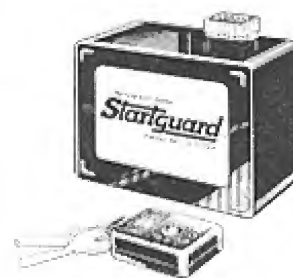
Circle 334 on Rapid Reply

### C & A Control's Startguard

Startguard is a remote auto starter/passive security system from C & A Control Systems, Inc. that combines the luxury of a remote starter with the security of a passive alarm.

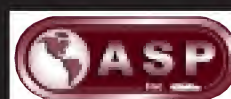
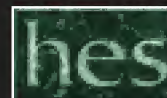
Startguard starts up a vehicle's engine by remote control from up to 300' away, and it automatically activates all preset accessories to preheat or pre-cool the vehicle's interior.

Customized anti-theft security features include continuous starter kill, automatic alarm trip, dual disarm sequence, and optional alarm hookup.



Circle 335 on Rapid Reply





### Clifford Electronics' Security System

The Clifford Ace vehicle security system from Clifford Electronics, Inc. features a dual-button miniature keychain remote which arms/disarms alarm, locks/unlocks doors, activates dome light upon disarming, performs automatic system diagnostic and automatically overrides any malfunction to continue vehicle protection.

Optionally, the remote can command the parking lights, trunk release, windows and sunroof, garage door and can even start the engine and heater from 250 feet away.



Circle 326 on Rapid Reply

### Code-Alarm's Intercept

Code-Alarm has introduced Intercept, a stolen vehicle recovery system using both cellular and Loran technologies. If the company's vehicle security systems do not deter a thief, Intercept will activate the alarm and kill the engine through remote control.

After a theft is reported to Code-Alarm, the monitoring station uses Loran radar to find the exact location of the vehicle on its own terminals without involving the police. The car's location is determined by the Loran receiver and is transmitted through the cellular phone which automatically dials Code-Alarm's monitoring station to report its location.

### Crimestopper's HiPro Commander

Crimestopper Security Products, Inc. is now shipping the HiPro HP8850PR Commander™ vehicle security system. Combining a deluxe paging alarm system, a deluxe remote control alarm system, and Remote Engine AutoStart™ all into a single, compact hand-held unit, the Commander offers two-way instant communication between you and your car.

It is the first vehicle security system to utilize FM or transmission of paging signals, which improves reception through and around buildings.



Circle 332 on Rapid Reply

### Detec's New Security System

Detec Security Systems, Inc. is introducing a retail "do-it-yourself" security system designed for home or office. This system can be wireless, hardwired or may have a combination of both and is a regular built-in-the-wall type found in the more expensive and complex security systems.

The system uses electronic technology that has been proven for many years and not microcomputer-based technology that is complex and confusing to the customer.

It was designed with a color to number installation procedure and all components simply plug-in.



Circle 331 on Rapid Reply

### Wireless Alarm From Dicon

Dicon Systems has introduced a wireless burglar alarm that can be installed in any house or apartment in minutes without tools. The new Dicon 3000 Home Burglar Alarm offers a built-in telephone dialer and emergency message system and features a computerized central console which speaks.

In addition to detecting intruders, the system monitors itself for proper operation, and vocally reports its status to its owner. The system consists of the central console, a siren, a passive infrared motion detector, and accessories.



Circle 330 on Rapid Reply

### Vehicle Security From Genesis

The Genesis™ vehicle security system originated from aerospace technology. Multi-phase Environment Adjuster™ is the user-friendly transmitter which allows the consumer to make sensitive adjustments—no interplay or presetting is necessary.

A unique feature of Genesis, the System's Analysis Processor™, allows you to stock a single basic "passive" system, which can then upgrade to any system with an "all options" menu at no cost. The S.A.P. also allows for trouble-shooting at the press of a button.



Circle 329 on Rapid Reply

### Harrison Introduces HE-Series Alarms

Harrison Electronics has introduced its new HE-Series of vehicle alarms.

The HE-100 is a passive automatic arming system with electronic controller and siren in one unit engineered for under-hood mounting where it is protected by an instant trigger hood switch. LED and chirp arming indicators, panic switch, valet, starter kill circuit and selectable pin-switch or voltage sensing install are included.

The H-200 is a full-featured, RF transmitter remote controlled tamper-proof alarm with a built-in adjustable electronic shock sensor.



Circle 328 on Rapid Reply

### ITI's Wireless Emergency System

The SX-V from Interactive Technologies, Inc. is a wireless fire and intrusion security system with eighty fully supervised zones, providing open field reception exceeding 500 feet. A full selection of wireless peripherals make the product suitable for a wide variety of installations including commercial and residential use.

The interactive monitoring of the system requires the use of the ITI CS4000 central station receiver. Though the system is wireless, it is capable of hard-wire expansion using an innovative data buss.



Circle 327 on Rapid Reply



### Lock-Itt's Steering Lock

The new permanent steering column lock from Lock-Itt, which helps prevent would-be thieves from peeling the steering column, is designed to remain on the column while the vehicle is being driven. In this way it is very convenient to use, since once in place, it need never be removed.

As an alternative, utilizing a special screw with a break-away head provides for permanent installation.

The unit is easy-to-install and comes complete with a heavy-duty lock.

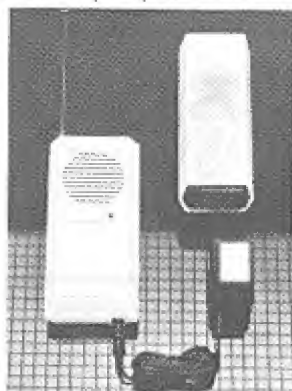


Circle 324 on Rapid Reply

### The Optex Wireless Annunciator System

A unique and versatile wireless sensing system designed for indoor or outdoor applications is available from Optex (U.S.A.), Inc.

The transmitter/sensor incorporates a PIR that detects movement, then transmits a R.F. signal to a coded receiver. A selectable, 4-tone chime receiver alerts you of entry at doors or unauthorized areas. The outdoor transmitter/sensor may be used as a wireless driveway or pool sensor.



Circle 325 on Rapid Reply

### Peterzell's Doorknob Alarm

The Model I Electronic Doorknob Alarm from the Peterzell Company features a 110 decibel output.

The unit hangs on the doorknob of any wood door and offers a full range of sensitivity adjustment that not only eliminate false alarms but also detect lock picking. It even detects an intruder who is wearing gloves. Simply touching the doorknob sets off the alarm.

Model II is suitable for use on metal door.



Circle 339 on Rapid Reply

### Pro-Tek Guards Hood Ornaments

Pro-Tek Emblem Guard has designed an alarm system for hood ornaments that is guaranteed. When the ornament is tipped or touched it activates the horn, which is wired to the ornament. The ornament is reinforced underneath the hood, but remains spring-loaded as required by law. When the emblem is touched, the horn sounds and when released, the horn stops and the ornament goes back into place.



Circle 338 on Rapid Reply

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### Ram's LA Lock Anti-Theft Device

Ram, announces the release of a new anti-theft device for all vehicles, the LA Lock. Developed in Los Angeles, where car theft is rampant, this new lock will significantly deter, prevent and actually reduce the chances of the vehicle being stolen.

With an LA Lock installed, the normal ignition wiring is re-routed, into a small sealed module located under the dashboard. The car simply will not start, even with the correct ignition key.



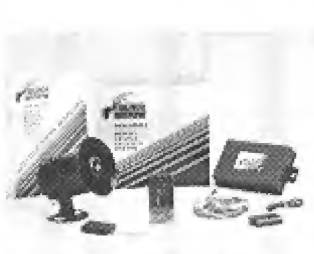
Circle 350 on Rapid Reply

### Black Widow Alarm System

The Black Widow is an affordable remote vehicle security system. The alarms range from the BWS-100, an entry level system including entry violation and switch sensing, to the BWS-1 with visual and audible indication and a manual override switch.

For even greater protection, the BWS-2 has passive and active arming, a built-in flashing circuit and much more.

A full range of options are available for all models.



Circle 349 on Rapid Reply

### Rodann's New AV-100 System

Rodann Electronics Mfg. Co. is introducing its newest door alert passive infrared system. The Rodann AV-100 is designed to welcome customers or clients with a pleasant sounding chime and prevent unannounced entry.

This unit holds up to four chimes and requires no adjustments or maintenance. The low cost, easily installed above-the-door or side mounted unit is ideal for office or business convenience and protection.



Circle 348 on Rapid Reply

### Schlage Offers Pro Security

Schlage has introduced a new security system that contains premium features found on professionally installed systems.

The Schlage Keepsafer Plus Pro allows a homeowner to install a security system as a permanent upgrade to their home. Yet, the Keepsafer Plus Pro features the ease of installation and operation features found on the entire Keepsafer line.

Users enter a three-digit access code into the digital keypad on the control console and select one of the desired alarm modes: home, away, day or off.



Circle 347 on Rapid Reply



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### Seco-Larm Offers The Enforcer 5500

Seco-Larm offers an economical and easy-to-install alarm to promote vehicle protection. The Enforcer 5500 is a fully passive alarm system which supplies convenient vehicle security. It is an easy to use system which may qualify for insurance discounts because it is armed passively.

Features include positive and negative switch sensing, flashing status LED, 113dB high-powered siren, audible "chirp" arming confirmation signal, patented Q.Q.T. circuitry, fail-safe arming, and a patented motion detector.



Circle 343 on Rapid Reply

### Steadfast's Steering Column Armor

A permanent steel surrounding for steering columns on GM, Jeep and Chrysler cars and light trucks is available from the Steadfast Corporation.

Widely used by the major rental car companies to foil thieves without inconvenience to the driver, it completely covers the areas of the column where access to the rack system is gained.

Installation is simple and takes less than 15 minutes.



Circle 346 on Rapid Reply

### The Thug Bug 3500 Remote

The TB-3500 is a micro-processor controlled full featured unit from the Thug Bug Company. USA built, the TB-3500 comes equipped with two transmitters (one button, two channel operation), a 127Db siren, status LED, on-board light flash relay, shock sensor (with LED adjustment), starter interrupt relay and harness, receiver module with a molex connector that plugs directly into the receiver for ease of installation, and a valet switch/override switch.

The TB-3500 has many other standard features and several optional features.



Circle 345 on Rapid Reply

### Top Secret's Ornalarm

The Ornalarm system from Top Secret vehicle security systems stops hood ornament theft two ways:

First, Ornalarm will activate the siren or horn systems of an existing alarm when the hood ornament is moved (bent, or pulled in any direction). Second, a theft-resistant spring with back-up safety cable (capable of withstanding up to 150 foot lbs. of torque) will deter unauthorized removal of the ornament and resist damage.

By adding Ornalarm to an existing auto alarm, you can increase the protection and the value of the system to the customer, and increase your profit on the sale of the alarm.

Circle 344 on Rapid Reply



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### Z-Lock Mfg.'s Cassette Lock

The auto cassette player lock, from Z-Lock Manufacturing Company, is a method of deterring the theft of a cassette player from your car. A thief won't want a player that cannot be played. The warning tag gives a thief a visual message that the player is locked.

It also blocks insertion of things into the player by children and it can restrict tape player usage by unauthorized individuals.



Circle 353 on Rapid Reply

### Auto Page's Remote System

Auto Page introduces the RFP/10, a remote-controlled vehicle security system. Auto Page designers have ensured drivers of full-time vehicle security. The system comes with a pager, which has a built-in RF remote control transmitter in a single compact unit.

The RFP/10 features a last door arming system, automatically initiating security seconds after the last door is closed. This unit also provides a valet override switch and a starter disabler, complete with resonance sensors.



Circle 354 on Rapid Reply

### Clifford's Astra Protects Devices

The Astra from Clifford Electronics has a dual-button 16-function key-chain remote control which commands all electric devices in the home—appliances, lamps, outdoor lights, garage door, electric gate, etc.—and can also control all functions of one or more Clifford Intelli-Guard Series vehicle security systems.

The system uses X-10 modules and comes with a lamp module, appliance module, garage door/gate adaptor, remote and control unit.



Circle 356 on Rapid Reply

### Crimestopper's HiPro Legend™

HiPro's HP8919MX Legend™ is a remote control alarm system with the MX Code™ anti-scanning circuit from Crimestopper Security Products. The system warns of, then compensates for, any defective trigger. It locks and unlocks doors, flashes your car's lights, honks your car horn, turns on a dome light as it disarms, and has a normally open starter kill circuit with a two-step emergency disarm.



Circle 355 on Rapid Reply



### Detec Offers Home Protection

Detec's security system has been specifically designed and manufactured for the motorhome industry. It provides the motorhome owner with the same type of protection as in residential and commercial applications instead of adapting an auto alarm to protect your motorhome.

The system allows 24 hour protection while in or out of the motorhome. Other features include choice of sensors magnetic motion, undercarpet, smoke/fire, etc.

This unit detects the various signals sent by the sensors.



Circle 358 on Rapid Reply

### Harrison Electric's Pager Alarm

Harrison's 7121 Pager Alarm monitors vehicle doors, hood and trunk, glass and body, signaling instantly via personal "beeper" if security is violated. The pager arms automatically when the engine is turned off.

The built-in piezo sensor detects vibrations on a car's body and attempts to break glass. If the system is triggered, the vehicle's automatic antenna is raised for increased range and the personal pager begins to beep.



Circle 359 on Rapid Reply

### ITI's Talking CareTaker System

The CareTaker Security System from Interactive Technologies, Inc., has great customer appeal, boasting voice synthesis to announce intrusion, temperature changes and status information.

The system is capable of receiving from up to 30 zones with two zones for panic and police. The system may be monitored by a number of other central stations besides the ITI central station receiver. The system is also capable of hardwire or wireless operation.

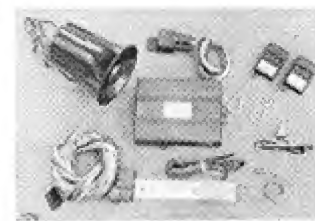


Circle 360 on Rapid Reply

### The Thug Bug 3700 Remote

The Thug Bug TB-3700 is a microprocessor controlled full featured unit which comes equipped with the standard features along with active or passive (last door arming) operation, negative and positive door pin circuits, instant trigger circuit (used for motion, or shock sensors), and dual light flash verification of arm, disarm, and panic. Dual output allows for hookup in vehicles with separate left and right parking light circuits.

Other standard and optional features are also available.



Circle 361 on Rapid Reply



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# The Loribolt Automatic Deadbolt

"This lock combines the best features of the deadbolt with the most desirable features of the latchbolt, to furnish the locksmith with an excellent product."

by Robert Sieveking

Since the first invention of the deadbolt lock, there have been very few major design changes to speak of. As Pharaoh left the house each morning on his way to the pyramid, he had to stop and manually throw the bolt to lock his front door. Everyone that has a deadbolt, even today, is still manually throwing the bolt every time they want to lock a door.

The invention of the latch bolt ushered in a new era of convenience. By simply closing the door, the latch would automatically spring into the jamb to secure the door in the frame. This convenience was not without a price. The

enterprising crook, with a little help from a credit card, found that the latch bolt was easily defeated with only a small amount of coaxing. The addition of a deadlocking pin to the latch bolt greatly increased the security of the lock, but the angled face of the latch still found the crook forcing the latch bolt back with a butter knife or thin chisel instead of the traditional credit card.

The convenience of a deadbolt that extends automatically, is a total departure from the definition of a deadbolt. There have, over the years, been a number of automatic deadbolts. Their utility was recognized, but their appli-

cation was seriously limited by their design and/or inability to adapt them into systems that were not of their specific manufacture. The hotel industry has been using some unique automatic deadbolts, with an electronic twist, but that will have to be the topic for another article. The topic of this article is the new Loribolt automatic mortise cylinder deadlock. (See photograph 1.)

The Loribolt automatic deadlock combines the best features of the deadlock with the most desirable attributes of the latchbolt, to furnish the locksmith with a relatively universal tubular security lock that is easy to install, convenient to use and as secure as any



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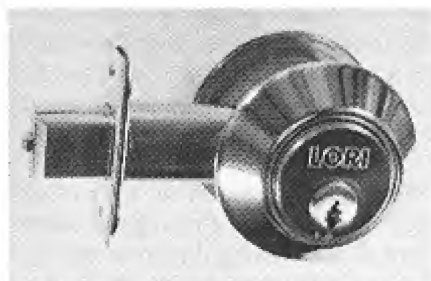
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1. The Loribolt automatic mortise cylinder deadbolt.

deadbolt presently in the marketplace. Additional features, provided by the holdback/lockout function thumbturn, make the Loribolt a uniquely useful lock.

Loribolt combines the convenience of a latchbolt with the security of a deadbolt. The unique design of the bolt shown in illustration two, allows it to "sense" the special grooved strike as the door is closed and release the deadbolt into the strike at the correct moment, to secure the door. This little trick is

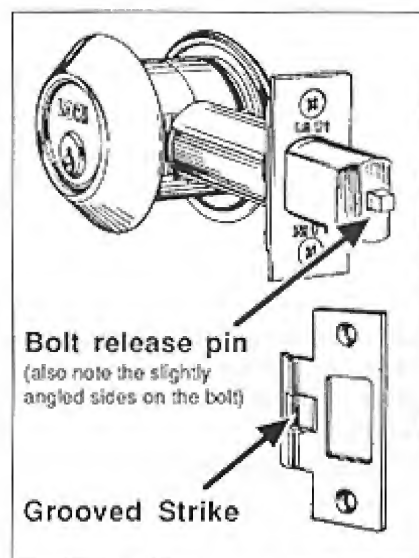


Illustration 2

accomplished with the bolt release pin, which extends from the end of the bolt. As the door is closed, the grooved strike compresses both the bolt and bolt release pin into the door to release the spring-loaded deadbolt. As the bolt slides over the large opening in the strike, the full 1" throw deadbolt shoots into the latch box to secure the door.

The bolt deadlocks in the extended position and does not present an angled or sloped side which can be "carded" or "shimmed" back to open the door. The bolt is made of stainless steel. The increased saw resistance, gained by the use of stainless steel in the bolt, also increases the shear strength of the bolt far beyond the strength of most door/jamb combinations.

The Lori mortise cylinder deadbolt has been a useful product for many years. The heavy reinforced cylinder rings and sturdy internal housing are suitable for most high security applications. Because any standard mortise cylinder with an Adams Rite cam can be used to operate the lock, we use the Lori mortise cylinder deadbolt in situations that require a tubular deadbolt with a special keyway. A suitable tubular deadbolt may not always be readily available from the original hardware manufacturer, but mortise cylinders are always available.

The Lori mortise cylinder deadbolt fits a standard 2 1/8" door prep with a 1" edge bore, and is available in 2 3/8" and 2 1/4" backset. It is available in US3 (bright brass), US4 (satin brass), US5 (antique brass), US10 (satin bronze), US10B (oil rubbed bronze), US26 (pol-

ished chrome) and US26D (satin chrome) to fill the aesthetic or architectural requirements of most any application. The Lori deadbolt can be installed on doors 1 1/8" to 1 3/4" thick, as it comes from the box, with standard 1" mortise cylinders.

By using longer mortise cylinders or Lori cylinder extensions, this deadbolt will work on those 2" and 2 1/2" commercial wood doors that are still used in some of the older business districts. You know, we could probably put a deadbolt on old Pharaoh's door with one of these Loribolts and a couple of extra long mortise cylinders. Because the bolt interlocks with the threaded cylinder housing (see illustration 3), there is very little chance for binding caused by misalignment and absolutely no chance for the bolt to become disengaged from the cylinders. The design of

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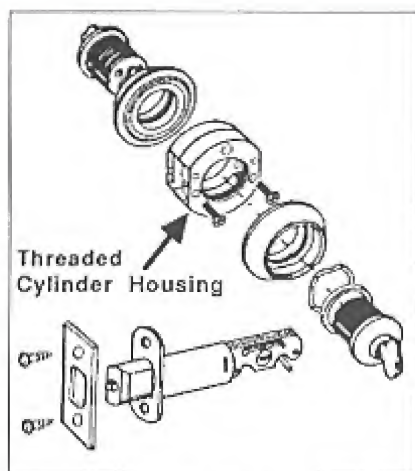


Illustration 3

the cylinder housing absolutely prevents manipulation of the lock by an ice pick style bypassing attack. Very

few tubular deadbolts can boast this level of security.

#### Additional Features

If you study the Loribolt a little closer, you will realize that there are a number of applications that could require that the door be allowed to close without locking. The "hold-back" function is provided by a special function thumbturn. By rotating the thumbturn to retract the bolt, and pulling out on the handle, the turn locks the bolt in the retracted position. To restore the locking action of the bolt, simply push the handle of the thumbturn in. This will release the mechanism and allow the bolt to function normally.

Common entry doors and apartment common areas like the pool, laundry room or garage are all candidates for

the Loribolt. You get the convenience of automatic locking, with the security of a deadbolt. And the universal feature of the mortise cylinder allows you to key it into your master system.

A second feature of the special "hold-back" thumbturn is the "lock-out" function. By turning the thumbturn in the locking direction and pulling out on the turn handle, the bolt can be locked in the extended position, preventing key operation from the outside. This feature is a real selling point when you are talking to an apartment building tenant. The deadbolts in most buildings are or at least should be on a master system so the landlord can enter the apartments in an emergency, to shut off water or check for the source of smoke, etc.

At the very least, the landlord will demand to have a copy of the tenant's key. By offering the Loribolt, the locksmith can provide an added level of security to the tenant when they are home. When the tenant is in the apartment, she can lock the door and not be troubled by a maintenance man that "just thought he heard water running" or "wants to know if she smelled smoke." No more "gee, I didn't know you were in here." Use your imagination. You can sell this feature alone, while you remove a lock for rekeying. There are advantages to moving product with service.

This product will be a good seller. In fact, I sold the sample shown in photograph one, before I could finish this article. I guess I'm lucky I got the picture.

For more information contact: Lori Corp., Old Turnpike Road, P.O. Box 490, Southington, CT 06489, (203) 621-3601. ■

## NATIONAL AUTO LOCK SERVICE, INC.

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# VATS Update

"There are new items required for certain models in order to interrogate the system. On some new Cadillacs, you need a VATS harness adaptor."



Send your car opening questions to: Shirl Schamp, The National Locksmith, 1533 Burgundy Parkway, Streamwood, IL 60107.

by Shirl Schamp

I don't really intend to repeat everything you should know about the VATS system, but I also feel that many things have been happening that you should be aware of. There are new items required for certain models, and there are numerous new variations to the VATS interrogator that might suit your desires or your purse better than what was originally offered. I also want to make a correction to what I originally wrote in reference to using another lock for the interrogation.

Let's get the correction out of the way first. I originally said that you had to "0" bit an ignition cylinder to use it for interrogating a system. I missed an important point at that time. I felt that by "0" biting the cylinder you could simply replace the existing cylinder with your lock and then run the 15 VATS keys allowing the necessary time lapse of four minutes between tries without wasting any blanks. Then after learning which blank was required you replace the original cylinder, cut the mechanical portion of the key on the blank and you are finished.

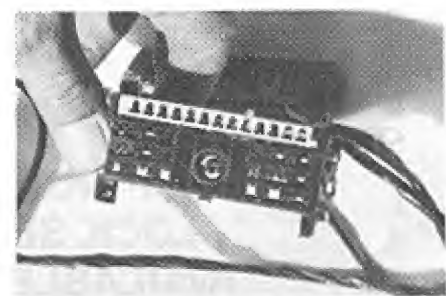
What has come to light since this is the question why "0" bit it? You can use any VATS lock. Just use it the same as you would use an interrogator. Pull the wheel, make the mechanical key and plug in your lock where the original lock had been plugged in. Insert the first VATS blank (uncut, no need for the blank to turn the cylinder) and just let it hang loose. Try your mechanical key in their lock. If it does not work, let the four minutes elapse and try the next blank. In other words, your cylinder does not have to act as the lock, only as

a receptacle for the key blank; the same as an interrogator.

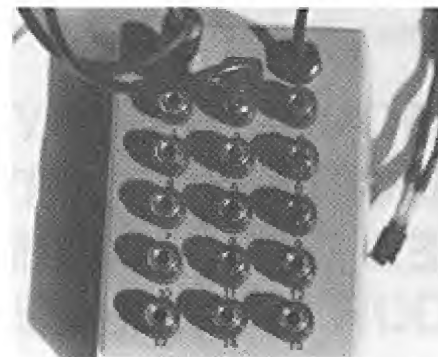
There are new items required for certain models in order to interrogate the system. On the new Cadillac Deville and Fleetwood you can't plug in your interrogator unless you first use a jumper unit to act between you and the 48 way connector at the base of the column. This unit is called a VATS/PASS Harness Adaptor. (See photograph 1.) In photograph two you can see the numerous plug-ins that are involved in this connector. The connector is placed between the male/female complementary parts at the base of the column. Separate the unit, place the harness between the two halves, and reconnect the parts. You will have two tails extending from the harness; a male and a female. Plug your interrogator into the appropriate receptacle, leaving the other to just hang. It doesn't apply to anything we are doing; it's for the mechanic who wants to inspect the total system.



1. The VATS/PASS harness adaptor.



2. Numerous plug-ins are used in this adaptor.



3. An interrogator from Baylis Corp.



4. Pocket digital ohm meter.



Stratton part #700582) for an interrogator you can purchase them for less than \$30. The price will determine the features included in the unit. The more expensive ones have a decoder built in to allow you to identify a customer's key to duplicate it. The less expensive units simply interrogate the system while making an original key.

When this system first emerged on the market, the only interrogator available to the locksmith was the one provided through Kent Moore. Don't misunderstand me, this one is still available and makes an excellent interrogator.

Since then, All-Lock has come out with the A-7000 VATS Decoder. It will identify the correct VATS key blank from the customer's original, decode the correct VATS blank from the vehicle if the original is lost, and diagnose VATS computer problems.

Uniguard has developed a Key Probe 1 and Key Probe 2. Key Probe 1 makes shop duplicating easy and Key Probe 2 will allow the locksmith to reproduce the customer's key while in the field. For more information on Key Probe, contact your Briggs and Stratton dealer.

Buzz Baylis (Baylis Corp.) is marketing a small interrogator that is very reasonable. It doesn't decode VATS blanks but interrogates the system. (See photograph 3). You will need an ohm meter to decode the key. I'm going to give you the readings to look for on the ohm meter, but remember to zero the ohm meter to eliminate any error that might be caused by the length of the meter leads. Read the instructions that come along with the ohm meter to find the zero adjust control.

To illustrate what I mean by that, I'll tell you how I discovered the differences. We supplied our main van with the original interrogator from Kent Moore when VATS first emerged. After that, when we set up a van, we discovered we were going to have a space problem. We began to search out machines and equipment that would fit in the limited space and purchased the interrogator from Baylis Corp. which optionally comes with a decoder, (an ohm meter). We elected to purchase only the interrogator portion and purchase an ohm meter separately. At Radio Shack we picked up a small pocket digital ohm meter. (See photograph 4.)

Now it was time to explore. I began to check out and list the resistance measurements of each blank. (See photograph 5.) While doing this I thought, why couldn't I just tie the meter leads

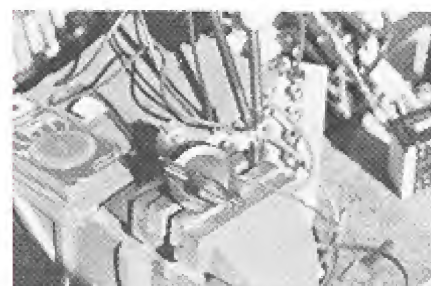
directly into a lock and use the lock as a receptacle for the key giving me a reading straight through the lock. (See photograph 6). I did this and it worked great with only one variable. The increased length of lead wire to the key could change the reading slightly. Re-zero the meter to compensate for the added lead length, otherwise a reading of .520 could read .522.

Keeping these possible variations in mind here are the readings I got.

Key #1 .397	Key #6 1.455	Key #11 4.73
#2 .620	#7 1.860	#12 6.03
#3 .676	#8 2.35	#13 7.45
#4 .879	#9 2.99	#14 9.51
#5 1.121	#10 3.72	#15 11.74



5. Taking the ohm readings of a blank.



6. Meter leads tied into a lock as a receptacle.



7. Jay Skelton with the small decoder he designed.

I do understand that part of the difficulty in setting up these digital reading devices is creating one that will give the correct reading after noticing the possible variations that could be generated by the resistant variables.

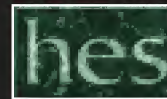
Jay Skelton, whom I've often mentioned as a collaborator of mine on many, many articles, has decided that maybe what's needed in the field is not what is necessarily needed in the shop or over the counter. He has decided to make and distribute a small decoder that could sit beside a machine behind the counter in a shop and just decode a



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## High Tech's Model 1800

"This car opening set incorporates the latest data available as well as being selective about the information it presents. It is updatable as well."

As another new model year rolls past, most locksmiths have noted the virtual flood of new models that the automobile manufacturers have released. In fact, 1990 has more new model cars and models with changes than any previous years in the past two decades. This barrage of new cars has caused a serious problem for locksmiths who may not have the tools to open all of the latest models. High Tech Tools offers a solution to this problem.

Today's locksmith must look professional, act professional and get the job done quickly. If you are fumbling around on one of these new cars, not only will you lose face, you will possibly lose the chance for referrals. Even worse, if you do not have the proper tools you may accidentally do damage to the linkage or the opening mechanism of these sophisticated new cars. Also you might lose a lot more than your pride; you could lose a lot of money for a repair.

Years ago, at the drop of a hat, locksmiths could easily compile all the tools and information they needed to perform car openings. A flat bar opener and a couple of parts books would allow you to service almost any vehicle on the road. This is not so today.

The days, a locksmith could load an entire van filled with tools and manuals and still not have everything he needs. This is just as bad as having too much. Too much information is difficult to use. Locksmiths don't often have time to leaf through thousands of pages for the answer to one small question.

High Tech's Model 1800 car opening set incorporates the latest data available as well as being selective about the information it presents. (See illustration 1.) Plus it is guaranteed and also is updatable. This is important because of the continual changes coming from the automotive industry.

As an example of a new vehicle, let's examine the Chevrolet Lumina APV. This new vehicle has caused a lot of

concern among locksmiths. The Lumina APV is equipped with a vertical slide type linkage. For the experienced locksmith with the right tools, opening the vehicle is as easy as with a key.

Here is the procedure to use with the Model 1800 tools and manual. Care-

fully separate the glass from the weather stripping with a wedge. It is recommended that you work from the passenger side of the car. Select the color coded white tool. Slowly lower onto the linkage. (See illustration 3.)

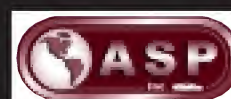
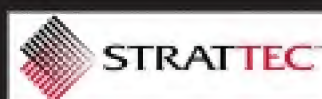
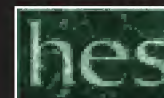
Note that you are aiming for the bot-

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tom linkage. Watch the door lock button. When you have successfully bound the linkage, the button will move slightly. At this point, tilt the top of the tool toward the rear of the car. With a quick snap of the wrist, the lock will

pop open.

It does sound easy. But the secret is a little experience and the proper tool. Other illustrations are provided with information on the Lumina APV. With this information, a locksmith can do

the job quickly and professionally.

For more information contact: High Tech Tools, 1400 S.W. First St., Miami, FL 33135, (800) 323-8324. ■

More illustrations on pages 68 and 70

## FACT SHEET

GM I-2

### Key Blanks

Key Blank	Key Blank #: (ILCO EZ #)	Ignition B64	Door B67	Trunk B67	Glove B67
Cross	ILCO/EZ	Dominion	Silca	Star	
Reference	B64	P1098J	GM7	HBR10J	
	B67	S1098WD	—	—	

### 1200CM Card

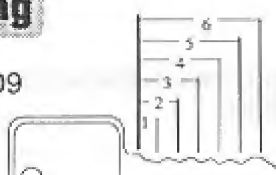
#25

### HPC Code Cutter

CW-1011

### Key Depth & Spacing

Stop to Center 1st Cut: .109  
Cut to Cut Distance: .092  
Shallowest Cut is a #5  
Deepest Cut is a #1  
Depth for shallow Cut: .148  
Drop Between Cuts: .025



### Spacing of Cuts from Bow

(SEE KEY DIAGRAM ON LEFT)

1 - 107	3 - 293	5 - 479
2 - 200	4 - 386	6 - 572

### Depth Chart

0 -	2 - 0.223	4 - 0.173
1 - 0.248	3 - 0.198	5 - 0.148

(11-22-333 11 = Volume, 22 = Section, 333 = Page #)

1977 GM Series N000-N999	03-02-003 to 03-02-006
1977 GM Series P000-P999	03-02-007 to 03-02-010
1977 GM Series S000-S999	03-02-011 to 03-02-014
1977 GM Series U000-U999	03-02-015 to 03-02-018
1978 GM Series E000-E999	03-02-019 to 03-02-022
1978 GM Series F000-F999	03-02-023 to 03-02-026
1978 GM Series G000-G999	03-02-027 to 03-02-030

### Framon Code Cutter

GM	Sidebar	82
GM Luv	C6001-C7042	172
GM Luv	B5001-B6000	173
GM Isuzu	See Datsun X&Y Series	162
GM Sprint	See Suzuki U Series	238

### HPC Code Books

(D - Domestic, 1 - Foreign Vol. 1., 2 - Foreign Vol. 2.)

Series	Comp.	Vol.	Pg.	Series	Comp.	Vol.	Pg.
18100-19299	GM	2	452	E000-E999	GM	D	214
8001-9400	GM	1	466	00F0-99F9	GM	D	218
R001-699	GM	1	472	0F00-9F99	GM	D	222
R00A-R69S	GM	1	475	F000-F999	GM	D	226
R0A0-R6H9	GM	1	477	00G0-99G9	GM	D	230
R00A-R6HR	GM	1	479	0G00-9G99	GM	D	234
S001-699	GM	1	480	G000-G999	GM	D	238
S00A-S69S	GM	1	483	00H0-99H9	GM	D	242
S0A0-S5S9	GM	1	485	0H00-9H99	GM	D	246
S0AA-S5SS	GM	1	487	H000-H999	GM	D	250
S4001-5200	GM	1	488	00J0-99J9	GM	D	254
U0001-2000	GM	2	457	0J00-9J99	GM	D	258
U7001-8200	GM	2	465	00K0-99K9	GM	D	262
VA001-500	GM	1	493	0K00-9K99	GM	D	266
18100-19299	GM	D	455	00L0-99L9	GM	D	270
8000-9499	GM	D	156	0L00-9L99	GM	D	274
8001-9400	GM	D	162	00M0-99M9	GM	D	278
00A0-99A9	GM	D	168	0M00-9M99	GM	D	282
0A00-9A99	GM	D	172	00N0-99N9	GM	D	286
A8001-9400	GM	D	176	0N00-9N99	GM	D	290
00B0-99B9	GM	D	182	N000-N999	GM	D	294
0B00-9B99	GM	D	186	00P0-99P9	GM	D	298
00C0-99C9	GM	D	190	0P00-9P99	GM	D	302
0C00-9C99	GM	D	194	P000-P999	GM	D	306
00D0-99D9	GM	D	198	0R00-9R99	GM	D	310
0D00-9D99	GM	D	202	R001-699	GM	D	314
00E0-99E9	GM	D	206	R00A-R69S	GM	D	317
0E00-9E99	GM	D	201				



GM 1-3

## Lumina APV, Silhouette, Transport

### INSTRUCTIONS:

#### Tool: WHITE TOOL

1. Separate glass from weather-stripping with a wedge on passenger door.
2. Point tip of tool towards rear of car.
3. Lower the tool into car (SEE INSERTION DIAGRAM FOR POSITION).
4. Twisting the handle towards you, lower the tool onto the linkage and turn the handle towards the rear of the vehicle to bind the linkage (YOU ARE AIMING FOR THE BOTTOM LINKAGE).
5. Tilt the top of the tool towards the rear of the car in order to move the tip of the tool and the linkage forward (SEE ENLARGED ILLUSTRATION).

**NOTE:** Look at the door lock button inside car for movement. When you have bound the linkage, you will see the lock button move.

### DIAGRAM:

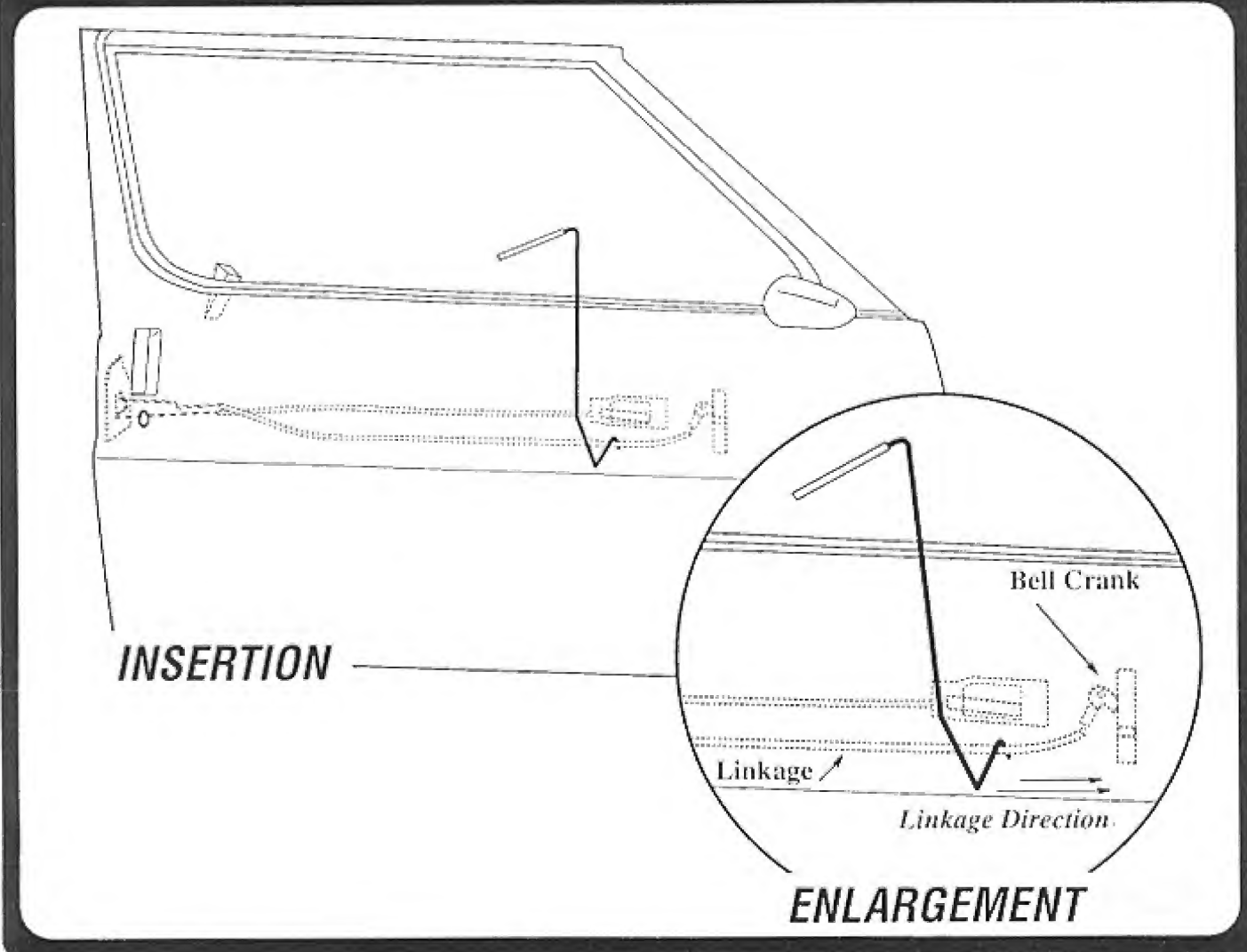


Illustration 3



# Chevy Lumina, APV

GM 1-4



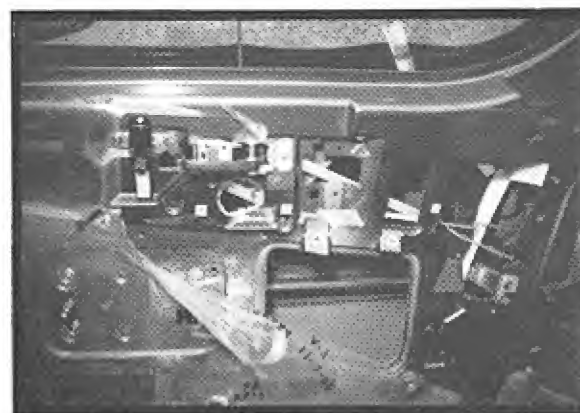
**Photo 1**  
Lumina APV



**Photo 2**  
Tool in working position.



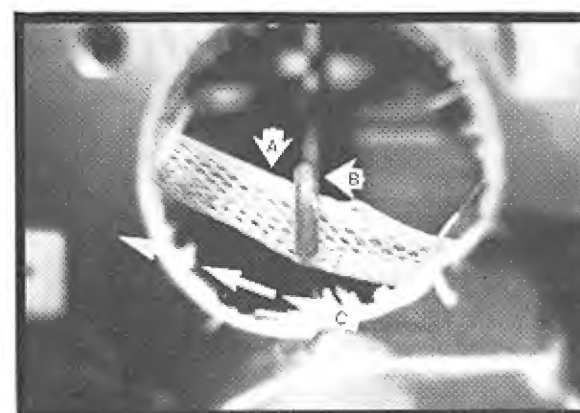
**Photo 3**  
Tool in working position.



**Photo 4**  
Door with panel off.



**Photo 5**  
A - Tool                      B - Linkage.  
C - Move tool this direction.



**Photo 6**  
A - Tool                      B - Linkage.  
C - Move tool this direction.

Illustration 4



## Mary's Conundrum

# On The Lighter Side

---

"Mary called Security Locksmiths to come secure her fence with the biggest, meanest padlock they had. She also had them make keys for the house too."

---



by Sara Probasco

It had never occurred to Mary to lock her doors until quite late in her life. A widow with no children, she lived alone in a house that had been her mother's and grandmother's before her. No doubt, there had once been keys, but none that Mary remembered.

People in her small, southern town

seldom kept their doors closed, much less locked. The idea seemed downright inhospitable to them, even when they went away for the weekend or longer.

Everyone knew everyone else in town, so they didn't worry much about security. After all, that's why they had Chief Henson. The townspeople trusted that any stranger lurking about would be known to their police chief before the dust had settled in his footprints.

Mary had officially retired seven years ago, but to fill the empty days, she continued to work a few afternoons a week, keeping books for the local automobile dealer.

Upon returning home one evening, she was surprised to find that someone

had been in her home, unbidden. She knew, because the seat had been left up in the bathroom, something she would never have done. Oh well, she shrugged uneasily, if someone passing required the "necessary room," there was no real harm done.

A few days later, however, when she found similar indications of an interloper, she felt somewhat irritated. "The gall of some people!" she thought. Well, she couldn't have this sort of repeated trespassing in her home. Something must be done.

Picking up her rolling pin (the "security blanket" of her generation), she began to look around for clues as to who might have entered. That was

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when she first glanced out the window and noticed that her prize quinces were missing from the tree.

Mary was known throughout the county for her superb quince jelly and raisin-quince pies. The pale green fruits seemed to lose their tartness when laced with the honey, sugar and secret ingredients of Mary's closely guarded recipe. Her entries had tingled the tongues of county fair judges for twenty years or more, bringing smiles to their lips and blue ribboned trophies to Mary's antique shelf.

The old, gnarled quince tree had become the envy of contest rivals, and especially of Myrtle Beth Clinghan, her neighbor across the street. Myrtle Beth refused to consider that Mary's culinary talents exceeded her own. Instead, she was convinced that the fruit alone made the difference. If only she could have some of Mary's grandmother's European quince-tree fruit, she was certain that she could cop the prize.

Each summer, as small, round, pale-green fruit began to evidence itself among the dark green leaves, Myrtle Beth became consumed with envy. She made no secret of the fact that she prayed regularly and fervently for Divine intervention which would render

Mary's tree bereft of fruit.

Looking at the fruitless branches of the old tree, plucked of their harvest only days before its time, Mary forgot about the trespasser who had invaded her home. She forgot about looking for clues. One thought consumed her: "Myrtle Beth Clinghan has stolen my fruit," and her blood pressure began to climb. Marching across the street, she stormed into Myrtle Beth's kitchen and demanded to examine her larder, but the prized quinces were not to be found among the produce there.

Despite the fact that all of her fruit was gone, the very next day Mary called Charlie Bodine at the lumber yard and had him erect an eight-foot high chain link fence around her quince tree. Then she called Security Locksmith to come thirty miles from the city and had them secure the sturdy gate with the biggest, toughest padlock they had. While their man was there, she decided to have him make keys for the house, as well, and she promptly locked all her doors. She wasn't taking any more chances. After all, she still had a few jars of last year's prize-winning jelly on the top shelf of her pantry.

Most of Myrtle Beth's friends did not believe that she would have gone

into Mary's house uninvited or would have left a bathroom in the condition described, and even Mary admitted that it didn't really sound like anything her neighbor would do. However, a nagging doubt remained in Mary's mind. "After all," she contended, "any neighbor who would steal your prize quinces..." and her eyebrows would climb accusingly up her forehead.

It was probably just as well that Mary began to lock her door when she did, for it was discovered that three boys who lived down the street had been short-cutting between the houses on that block after school. Once in a while, they had dared each other into entering unattended houses, "just to look around." Although they denied picking more than an occasional piece of Mary's fruit, they finally did admit to using her bathroom on more than one occasion.

Nothing was ever reported missing (except Mary's quinces), but the incident prompted various people in the neighborhood to lock their doors on the pretext of removing temptation from the youngsters. Soon, it became the norm.

*Continued on page 107*



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# American Security Show 1990

"The 1990 Instructional Program has been expanded to four days. Manufacturers will present product seminars and ALOA will offer PRP testing."

Renowned throughout the locksmith industry as one of the best buying trade show events in the country, the American Security Show '90 will be held at the Disneyland Hotel in Anaheim, California on April 1, 1990.

American Lock & Supply serves as host to over 3,500 security industry professionals who view the wares of 300 security product manufacturers. Nearly 200 manufacturer representatives are available to discuss their product line, new products and industry trends.

Fueled by an aggressive promotional campaign and deep product discount-

ing, AmLok's event has developed the reputation as the place to receive the best buys on a full range of security items. The show has grown every year. The 1989 version's sales were 40% better than the previous year's—reaching a whopping \$750,000.

In addition to offering excellent product discounts on nearly every product line the wholesaler stocks, AmLok also focuses on education and training during the week of the show.

The 1990 instructional program has been expanded to four days. Manufacturers such as Medeco, Security Door Controls, Von Duprin and Yale, con-

duct product seminars. ALOA-sponsored PRP testing will also be on the agenda again this year as well as a variety of computer and electronics classes. Seminars conducted by a consultant group of professionals on financial and estate planning and social security and tax information have proven to be extremely successful.

A traditional deluxe buffet will be served and door prizes will be awarded. For more information: call American Lock & Supply's Marketing Department, (714)-996-8882 or (out of state) (800)-854-8775, ext. 285



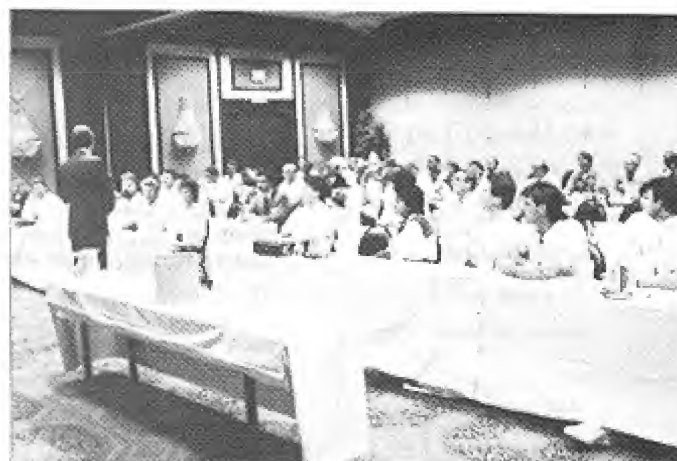
Refreshments and a banquet were enjoyed by all.



Sean DeForrest mans American's booth.



Bill Power chats with American Lock & Supply customers.



Training seminars are offered on a variety of interesting topics.





## Dale Opens a Protectall

"I do not know what they did to this dial to make it un-pullable, but it was. I knocked out the black center to check my progress and there was none."



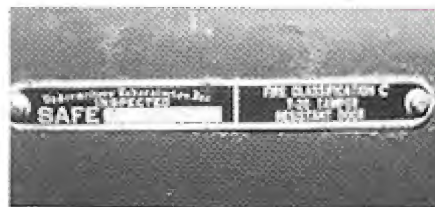
by Dale Libby

One of my favorite pastimes is adding new and correct information to my collection of safe opening books. Although most of the information is correct and accurate, there are always exceptions and they should be noted, for sure as shooting, sometime you will run into the exception rather than the

usual ones. This makes safe opening exciting as well as frustrating, and that is the challenge I live for.

The safe we will address in this article is a Protectall safe manufactured by Mosler. Although the name Mosler does not appear anywhere on the safe, the dial was Mosler with the black plastic insert in the middle. The handle was located directly under the dial, and in most cases, this indicates the combination lock is mounted vertical down (VD).

This unit also carried a Fire Classification of "C" (2 hour) and a T-20 rating which means that the safe door is resistant to drilling for a rated period of



1. T-20 rating label found on the Mosler Protectall door.

20 minutes. (See photograph 1.) It also indicated the use of a good hardplate in this unit.

One of the giveaways about this safe was the logo of an Indian head above the dial. According to the book, this meant that the lock used was a CD-120 style mounted vertical down. It was



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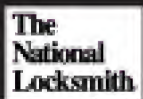
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not. I did not know this until the safe was opened, but in reality it does not make a difference. Although the directions would have been different for the lock actually used, the hole I drilled went through the edge of the lock case in an area that did not hurt or deform any part of the lock.

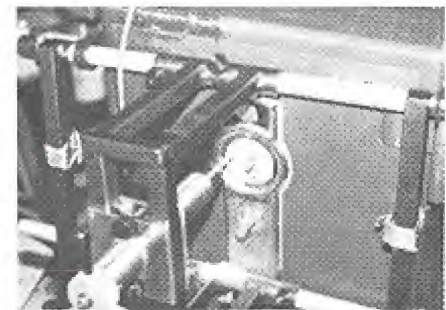
To open this particular safe, I decided to drill under the dial at the listed location in *The National Locksmith Guide to Safe Opening*. My first problem was pulling the dial. I tried pulling it three different ways, even going so far as to drill out holes in the edge of the dial for

the pulling set screws to rest in, and even this didn't work.

The safe manufacturers of today are putting spindles in from the top of the dial and pushing them through the dial. This accomplishes two things. It makes the dials stronger and easier to assemble, and makes pulling the dials much harder. I do not know what they did to this dial to make it unpullable, but it was. I knocked out the black center to check my progress, and there was none. An inch hole saw solved my problem very quickly. I drilled down the center of the dial around the spindle.

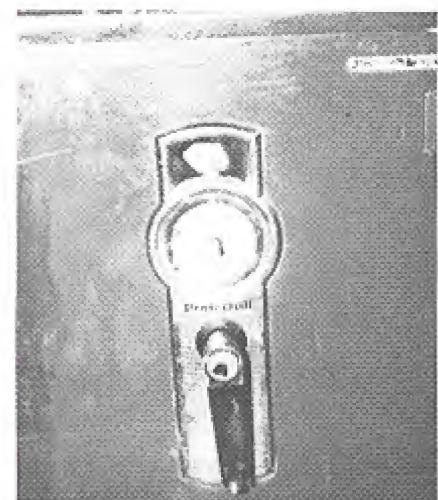
After the dial had been removed, I drilled on both sides of the spindle with an  $\frac{1}{8}$ " drill bit and chisled off the remaining metal to expose the spindle proper. I then removed the dial ring.

Being in an adventuresome mood, I got out my trusty Magnum drill rig to penetrate this monster. When I mounted it on the drill for initial line-up, I discovered that the handle was in the way of fully securing the drill rig unit to the door. Luckily, the handle is removable from the outside of the safe. (See photograph 2.)



2. Magnum drill rig on door. Both dial and handle have been removed to accommodate the drill rig.

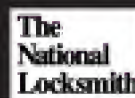
At the bottom of the black plastic ribbed handle is a small pressed on metal cap that is easily removable using a small hammer and screwdriver. Once the cap is removed, a  $\frac{1}{8}$ " screw is exposed, which when removed will allow the removal of the handle hub and the handle itself. (See photograph 3.) Once the handle is removed, the rig was installed with a minimum of aggravation.



3. Handle and dial configuration shown. Screw to hold on handle is visible at the bottom.

Sometimes, setting up the Magnum drill rig is a nightmare, but drilling hardplate with it is a dream. It makes it incredibly easy to drill and penetrate Relsom, and drill bits tend to hold up better than when freehand drill-rig drill-



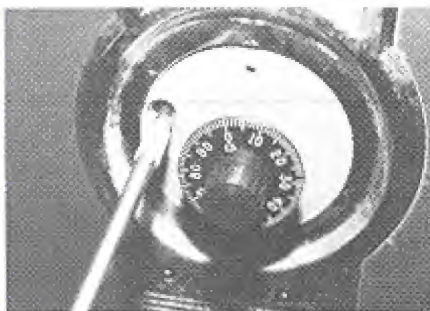


ling is done. After penetrating the hardplate, the rig can be moved to the side for inspection of the hole drilled. After penetrating the hardplate, I use a hand held drill to penetrate the last few centimeters to the lock case proper. (See photograph 4.) That is an art in itself.



4. Magnum rig moved to the side to finish drilling the soft lock case and to check progress.

Once the hole was made, I used a mini-dial and a borescope to determine the relative combination. (See photograph 5.) The relative combination is the combination that is used to transfer to the drop-in position which will open the lock. In this lock, there were three wheels and a driver, all the exact same



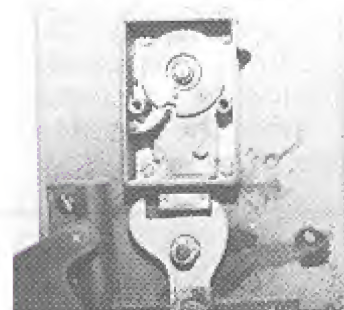
5. Borescope and mini-dial are used to determine combination and transfer point references.

size. When I saw this, I knew that the lock was not a CD-120. It really makes no difference.

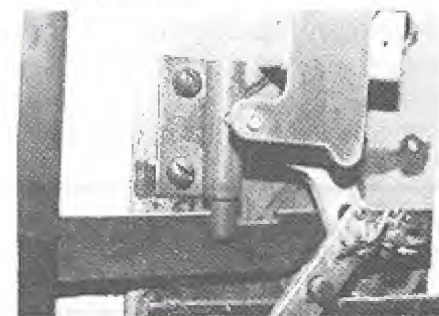
Taking the relative combination, and making sure it was correct, I concentrated on the driver cam. When I looked at the cam, it numbered 60 on the relative scale. I then turned the dial slowly to feel the drop-in area, where the lever contacted the drive wheel and it was at zero. It makes no difference how the lock is mounted or handed when you do this.

What I accomplished is knowing now that the relative combination was 60 numbers or so too "high." I subtracted 60 from all my numbers to get the actual combination, which when, dialed, opened on the third try. Oscillation of the dial is important at the drop-in area in case your numbers are not exact enough.

Once opened, the lock was a Mosler "S" series lock. There was also a listed relocking device which was activated if the dial was punched. The relocker was spring-loaded and shot down into the transverse bolt bar below the lock. It did not relock itself when activated. To deactivate, you would have to drill and raise up the relocker, and then throw the bolts. (See photographs 6 and 7.)



6. Back cover removed showing lock in the locked position. Note relocker in lower left corner.



7. The relocker is held on by the back cover of the combination lock. When activated it fits into the slot in the bolt/bar.

There is always a frustration factor when opening safes. You cannot rush it. Take your time and have fun and charge for what your services are worth, not what the customer thinks they are worth. Open and prosper! ■



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## Penn-Ohio Convention

Penn-Ohio Locksmiths' Association, Inc. celebrated their 25th Anniversary and 19th Annual Convention at the Marriott Greentree Hotel, Pittsburgh, Pennsylvania, October 13-15, 1989.

This past year's show included classes, clinics, PRP test, 60 exhibit booths, a bus tour which was organized and sponsored by M. Shepse Div./Amsco Bionics and a banquet.

More than 200 people attended the Show. Several people attended the four classes which were presented by excellent instructors. Don O'Shall instructed two classes, advanced masterkeying and removeable core. Brian Costley of Lockmasters taught the basic lockpicking and the impressing class.

Three clinics were offered and well attended. These included: "In's and Out's of Car Locks," Bill Seery, Instructor, assisted by Larry Hubbard; "Touching on Safes," Skip Eckert, Instructor, and "Simplex," Cliff Barrow, Instructor.



Locksmiths tour the exhibit booths.



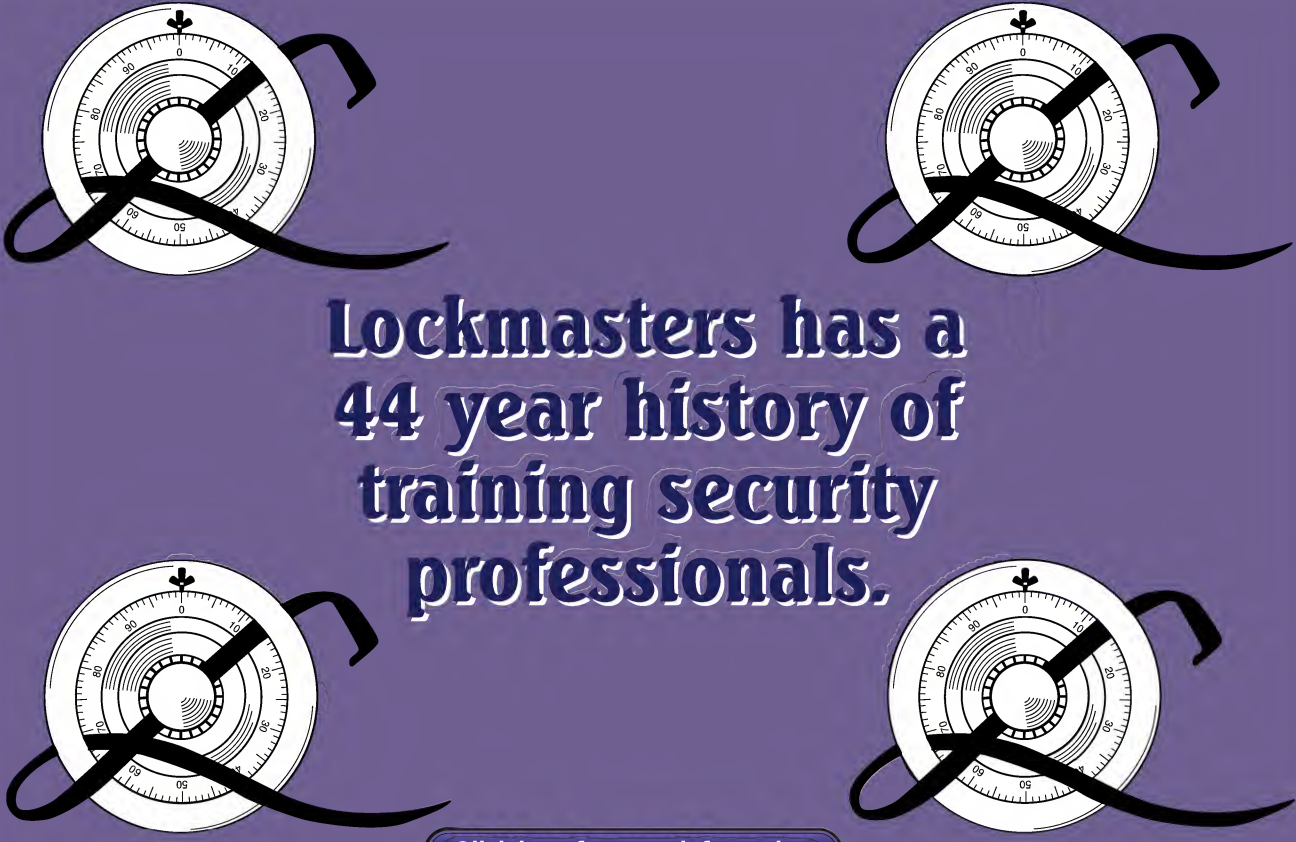
George Gatchell, recipient of the Wiegand Jensen award.

A hospitality room was available on Friday evening with food and drinks for the weary exhibitors and all registered attendees. Thanks again to Bob and Patty Rammuno for hosting another excellent event.

The banquet was held on Saturday evening. Special guests in attendance were Evelyn Wersonick (ALOA President), Mr. and Mrs. Henry Printz (ALOA Regional Vice President, Larry Larry Smith (ALOA Director) and several charter members of POLA.

This year's recipient of the Wiegand W. Jensen Award (which is presented to a person that the members of POLA feel has best served in the education of his fellow locksmiths) was George Gatchell. George was speechless, literally, when he accepted the award.

The 1990 Convention is scheduled for the Holiday Inn, Youngstown North/Metroplex Center, 1620 Motor Inn Dr., Girard, Ohio 44420. The dates are October 12-14.



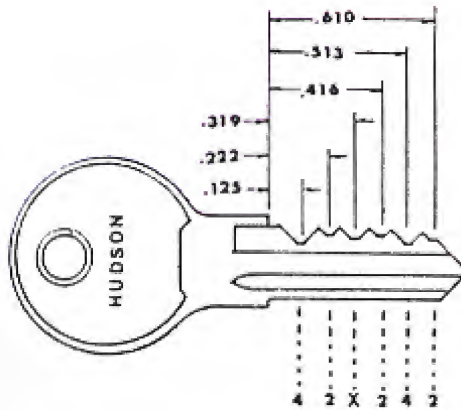
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# Pundra Codes

100-599



## Depths

0-	5-0.170
1-0.250	6-0.150
2-0.230	7-0.220
3-0.210	8-
4-0.190	9-

## Keyways

H01 01122  
L1054B



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# 100-599 PUNDRA

## Keyblanks:

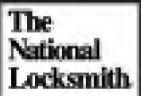
Original H01  
 Ilco O1122  
 HPC N/A

## Code Machines:

1200 CM No. 55  
 Codemax No. 2 - 070  
 DSD Page Ref. 1-47

0100	0150	0200	0250	0300
00 33113	50 15133	00 33113	50 35553	00 53533
01 11133	51 15135	01 33115	51 35555	01 53535
02 11135	52 15151	02 33131	52 51113	02 53551
03 11153	53 15153	03 33133	53 51115	03 53553
04 11155	54 15155	04 33135	54 51131	04 53555
05 11313	55 15311	05 33151	55 51133	05 55111
06 11315	56 15313	06 33153	56 51135	06 55113
07 11331	57 15315	07 33155	57 51151	07 55115
08 11333	58 15331	08 33311	58 51153	08 55131
09 11335	59 15333	09 33313	59 51155	09 55133
10 11351	60 15335	10 33315	60 51311	10 55135
11 11353	61 15351	11 33331	61 51313	11 55151
12 11355	62 15353	12 33335	62 51315	12 55153
13 11513	63 15355	13 33351	63 51331	13 55155
14 11515	64 15511	14 33353	64 51333	14 55311
15 11531	65 15513	15 33355	65 51335	15 55313
16 11533	66 15515	16 33511	66 51351	16 55315
17 11535	67 15531	17 33513	67 51353	17 55331
18 11551	68 15533	18 33515	68 51355	18 55333
19 11553	69 15535	19 33531	69 51511	19 55335
20 11555	70 15551	20 33533	70 51513	20 55351
21 13113	71 15553	21 33535	71 51515	21 55353
22 13115	72 15555	22 33551	72 51531	22 55355
23 13131	73 31113	23 33553	73 51533	23 55511
24 13133	74 31115	24 33555	74 51535	24 55513
25 13135	75 31131	25 35111	75 51551	25 55513
26 13151	76 31133	26 35113	76 51553	26 55531
27 13153	77 31135	27 35115	77 51555	27 55533
28 13155	78 31151	28 35131	78 53111	28 55535
29 13311	79 31153	29 35133	79 53113	29 55551
30 13313	80 31155	30 35135	80 53115	30 55553
31 13315	81 31311	31 35151	81 53131	31 35151
32 13331	82 31313	32 35153	82 53133	32 35153
33 13333	83 31315	33 35155	83 53135	33 35155
34 13335	84 31331	34 35311	84 53151	34 35311
35 13351	85 31333	35 35313	85 53153	35 35313
36 13353	86 31335	36 35315	86 53155	36 35315
37 13355	87 31351	37 35331	87 53311	37 35331
38 13511	88 31353	38 35333	88 53313	38 35333
39 13513	89 31355	39 35335	89 53315	39 35335
40 13515	90 31511	40 35351	90 53331	40 35351
41 13531	91 31513	41 35353	91 53333	41 35353
42 13533	92 31515	42 35355	92 53335	42 35355
43 13535	93 31531	43 35511	93 53351	43 35511
44 13551	94 31533	44 35513	94 53353	44 35513
45 13553	95 31535	45 35515	95 53355	45 35515
46 13555	96 31551	46 35531	96 53511	46 35531
47 15113	97 31553	47 35533	97 53513	47 35533
48 15115	98 31555	48 35535	98 53515	48 35535
49 15131	99 33111	49 35551	99 53531	49 35551





# 100-599 PUNDRA

## Keyblanks:

Original H01  
 Ilco O1122  
 HPC N/A

## Code Machines:

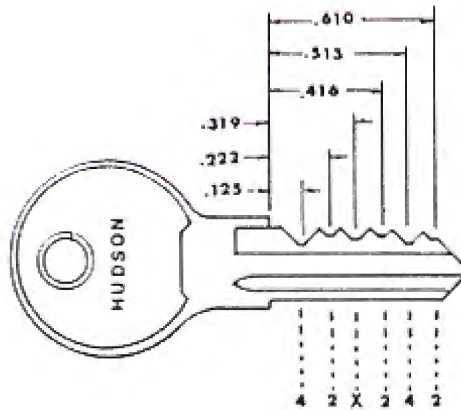
1200 CM No. 55  
 Codemax No. 2 - 070  
 DSD Page Ref. 1-47

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51 35555	01 11133	51 15135	01 33115	51 35555
52 51113	02 11135	52 15151	02 33131	52 51113
53 51115	03 11153	53 15153	03 33133	53 51115
54 51131	04 11155	54 15155	04 33135	54 51131
55 51133	05 11313	55 15311	05 33151	55 51133
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61 51313	11 11353	61 15351	11 33331	61 51313
62 51315	12 11355	62 15353	12 33335	62 51315
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65 51335	15 11531	65 15513	15 33355	65 51335
66 51351	16 11533	66 15515	16 33511	66 51351
67 51353	17 11535	67 15531	17 33513	67 51353
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91 53333	41 13531	91 31513	41 35353	91 53333
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93 53351	43 13535	93 31531	43 35511	93 53351
94 53353	44 13551	94 31533	44 35513	94 53353
95 53355	45 13553	95 31535	45 35515	95 53355
96 53511	46 13555	96 31551	46 35531	96 53511
97 53513	47 15113	97 31553	47 35533	97 53513
98 53515	48 15115	98 31555	48 35535	98 53515
99 53531	49 15131	99 33111	49 35551	99 53531



# Pundra Codes

SP000-499



## Depths

0-	5-0.170
1-0.250	6-0.150
2-0.230	7-0.220
3-0.210	8-
4-0.190	9-

## Keyways

H01 01122  
L1054B



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### SP000-499 PUNDRA

**Keyblanks:**

Original H01  
 Ilco 01122  
 HPC N/A

**Code Machines:**

1200 CM No. 55  
 Codemax No. 2 - 070  
 DSD Page Ref. 1-47

0250	0300	0350	0400	0450
50 35553	00 53533	50 15133	00 33113	50 35553
51 35555	01 11133	51 15135	01 33115	51 35555
52 51113	02 11135	52 15151	02 33131	52 51113
53 51115	03 11153	53 15153	03 33133	53 51115
54 51131	04 11155	54 15155	04 33135	54 51131
55 51133	05 11313	55 15311	05 33151	55 51133
56 51135	06 11315	56 15313	06 33153	56 51135
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61 51313	11 11353	61 15351	11 33331	61 51313
62 51315	12 11355	62 15353	12 33335	62 51315
63 51331	13 11513	63 15355	13 33351	63 51331
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66 51351	16 11533	66 15515	16 33511	66 51351
67 51353	17 11535	67 15531	17 33513	67 51353
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73 51533	23 13131	73 31113	23 33553	73 51533
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75 51551	25 13135	75 31131	25 35111	75 51551
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96 53511	46 13555	96 31551	46 35531	96 53511
97 53513	47 15113	97 31553	47 35533	97 53513
98 53515	48 15115	98 31555	48 35535	98 53515
99 53531	49 15131	99 33111	49 35551	99 53531



# Shop Talk

Helpful Questions and Answers

**Shop Talk** answers readers questions on any locksmith related topic. Only letters judged to be of general interest will be published. We regret that we cannot answer individual letters. Because of the volume of mail, only those questions published in the magazine will receive answers. Send your locksmith questions to Shop Talk: The National Locksmith, 1533 Burgundy Parkway, Streamwood, IL 60107.

Every time we get to wondering whether anyone out there is really reading *Shop Talk* something happens to convince us that zillions of locksmiths pour over this column every month. This time we were bombarded with letters and phone calls from lots of "Shop Talkers" who were able to identify Clarence Martin's key machine.

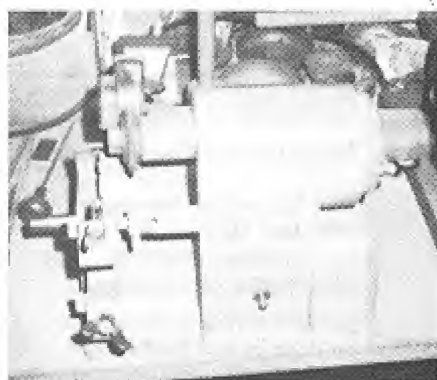
We printed a photo of the machine in the January issue and asked for help in identifying it. As of this moment, no less than 25 of you have contacted us to tell us about the machine. Seems like many locksmiths are using one of these babies despite the fact that they were originally placed only in hardware stores.

Here is one of the letters we received explaining the origins of this key duplicator. And many thanks to those of you who were willing to help your fellow locksmith.

*You probably received a thousand answers to the Clarence Martin of Georgia question about his key machine, but here's my answer anyway.*

*The machine pictured is indeed a 5&10 cent store/hardware store duplicating machine. Photograph one is a picture of mine. The label on the machine reads as follows:*

The NATIONAL KEY Co.  
Div. of COLE NATIONAL CORPORATION  
5777 Grant Ave. Cleveland, 5 Ohio  
Model 200 Ser. No. L-XXXXX  
AC Motor Cycle 60 Volts 110  
This equipment to be serviced by authorized National Key Co. representatives or personnel of this store. Only National Key Co. factory parts are to be used on this equipment.



1. Hardware store-type duplicating machine.

The socket on the back side of this machine was for a key blank carousel. The cutter I'm using is a HPC CW-50MC with a 3/32 flat ground washer on each side for spacing. This is not the easiest or fastest machine I know of, but it's good for cutting from numbered key sets because it cuts on both sides of the cutter.

Jack L. Wyant  
Ohio

\*\*\*\*\*

*Q: I have been employed for the last 20 years with two major safe companies, Diebold and Lefebure, as a field service technician. I have recently considered going into business for myself as a locksmith.*

*My question is: How and where does one apply to become a certified locksmith? Also, are there any suggestions you can offer as far as how I can improve my skills in locksmithing since my strong points are in safe and vault repair?*

*Any assistance in this matter would be greatly appreciated.*

Joseph Dillon  
New Jersey

A: Your question is a very good one. Many people believe that there must be some sort of standard procedure one must follow in order to become a locksmith. That just isn't true. To become a locksmith it sometimes seems that all you need is a business card and

a yellow pages ad. There are no actual requirements for education in most places in order to become a locksmith. I know of no particular requirements in New Jersey. Some places do have a licensing requirement, though.

You want to know where to apply to become a "certified" locksmith. That can be a very ticklish question. There is only one body which is certifying locksmiths. That would be the PRP program of the Associated Locksmiths of America (ALOA). Not everyone agrees with this program. But ALOA does provide testing services. When you pass the appropriate test, you are permitted to use certain initials after your name. The first level test is to achieve the RL initials or designation.

But is this a requirement to become a locksmith? No. However, if you are interested you may contact ALOA at 3003 Live Oak St., Dallas, TX 75204, (214) 827-1701.

As far as brushing up on your skills, Lockmasters offers education in the field of safe servicing. You may contact them at 5085 Danville Rd., Nicholasville, KY 40356, (606) 885-6041. For more information on schools offering education in the field of locksmithing, consult the "Schools" section of our 1990 Locksmith Directory.

\*\*\*\*\*

*Q: What is the best way to open a 1989 GMC pickup with electric locks? The driver said it was an '89 but it could be a 1990.*

*I opened it by spreading the top rear corner of the passenger door and inserted a long rod inside the pickup and pressed the electric lock button. Although we got it open I didn't feel very professional. There must be a better way.*

*Thank you for your attention.*

Ben Valle  
Exeter, CA

A: The General Motors locking systems, even though they might be electric also have a manual slide lock





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on the inside of the door on the panel. They either operate vertically such as found on Trans Ams, or horizontally as you would see on pickups. When the slide is in the unlocked position it will expose an orange flag warning you the door is unlocked.

First place a wedge between the door and the window spreading enough to give yourself only the room necessary to accomplish your task. Your job is going to be inserting the handle end of one of your tools. We usually use the handle end of our CO-39 (HPC number). This is a horizontal locking rod opening tool. Come down into the door directly behind the slide lock. When you are in far enough to be below the slide lock, turn the rod directing the tip to the back of the manual lock. Make contact with the lock, and when you see the slide wiggle, it's only a matter of making small adjustments in order to raise the slide.

02

\*\*\*\*\*

*Q: I am a locksmith and have been one for about a year. I subscribe to two locksmith magazines. I have a question for you, and hope that you or someone can answer it for me.*

*I know a fellow locksmith who is employed at a college. We often get together and discuss things and exchange books. He asked me if I had heard anything about Falcon Lock. He uses Falcon Interchangeable Core at the college, and has a large masterkey system, possibly four levels or more. He doesn't keep much of an inventory on hand, and orders from distributors when he needs to.*

*He recently put in an order for some cores to upgrade a new addition to the college. The distributor notified him that Falcon was in a "transition period," and the order would be about 14 weeks to complete. The distributor said that Falcon was being moved to another city, and it would take time to move the machinery and set up production again.*

*Is Falcon just relocating, or have they been purchased by someone else? If sold, will they still offer the same service as before?*

*The college has a lot of money invested in these locks and hopes to keep using them. They just switched to interchangeable cores recently because they reduce servicing time.*

*By the way, you have a great magazine. Keep up the good work!*

*Thomas Ferrebee  
Maryland*



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A: In a trade like ours, rumors spread rather quickly and tend to grow as they go. At the risk of turning this into a gossip column, this particular rumor seems to warrant clarification.

At one point, Falcon was prepared to move to Pennsylvania. As it turned out, the move was only about 200 miles from their old location. The decision was based on which group succeeded in the acquisition attempt.

Yes, the new owners are making some changes in the product line. Falcon never acquired much of a market share in lower end locksets, so the new management is discontinuing many of these.

But in your case, your primary interest is in institutional grade hardware, especially interchangeable core sets, and the company, at this time, has no intention of changing anything there.

As to alternative manufacturers of I/C hardware, Best's cores are less expensive than Falcon's, but their locksets are higher priced. Arrow offers a full line at lower prices than either of them for comparable equipment.

Eagle is another manufacturer of I/C equipment and hardware and comes in the lowest on overall prices, but has a more limited line of locksets available.

Since your friend represents a college, it would probably benefit both of you to persuade him to look into the Institutional Locksmiths Association (P.O. Box 108, Woodville, MA 01784-9986). Formed in 1983 as a local association, it has grown to national prominence only recently, but although it is a relatively young association, it exists to provide support for the Institutional locksmith, who is often ignored or discouraged by other trade groups. It can be especially helpful in situations such as this.

In Falcon's case, the switchover has not been an especially easy one, and several areas reportedly no longer have Falcon reps to service wholesalers.

Delays are to be expected at times like this, but are especially noticeable at the "wholesalers" who really are just order-takers with little or no stock. Stocking line distributors, on the other hand, can still fill most standard orders.

\*\*\*\*\*



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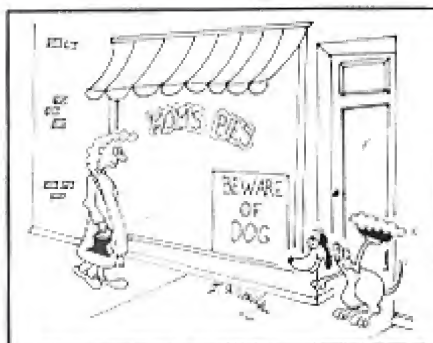
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## Technitips

*Continued from page 22*

cam as you see in illustration nine-A, the key will enter and operate the cylinder. Three things to watch for when using this technique are:

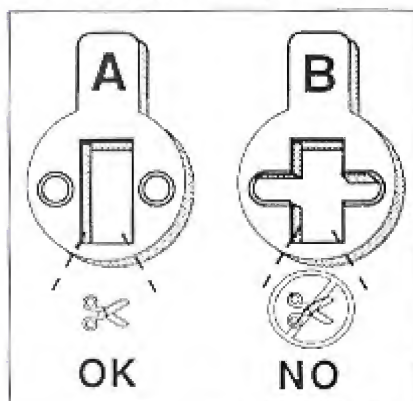


Illustration 9

1) If the cylinder cam has holes for the attachment screws as you see in illustration nine cam "A" it is okay to remove the bottom of the cam. If the cam is of the type shown in illustration 9-B, do not cut away the connecting piece. The cam will be weakened, break and fall off of the attachment screws. If the cam is other than brass, (made of cast or sintered metal) do not remove the connecting piece.

2) Check for clearance behind the lock cylinder. In cases with opposing pairs of mortise cylinders or tight clearances, as in the Adams Rite lock, the tip of the key may encounter an obstruction that will cause the lock to malfunction.

3) If the cylinder is part of a master system, be sure you are not creating a situation that will allow unauthorized keys to operate the lock.

Larry Wright  
South Carolina

\*\*\*\*\*

## VATS Update

*Continued from page 63*

customer's key to duplicate it. (See photograph 7.) All that you will see from the counter is shown in photograph eight.



Free  
freight!!

No middle  
man!!

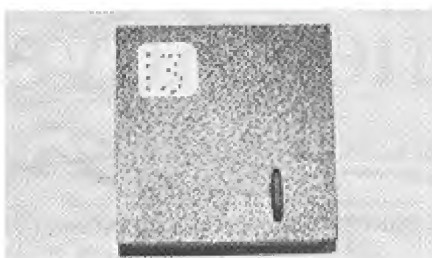
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8. Part of decoder visible from the counter.

It is conceivable that you could get by with just this decoder and your own VATS lock to act as an interrogator. For more information on Jay's decoder, you can talk to him by calling: (800) 655-1222 (California only) or (800) 695-5625 (nationwide).

I hope I've made you aware of a lot of new VATS gadgets and some trivia information that will make your life easier. ■

### On The Lighter Side

*Continued from page 73*

In the wake of increased security, someone opened a locksmith shop across from the old courthouse. Before long, fences began to spring up between houses and padlocks secured the new gates. But the event that seemed to have started it all, the mysterious disappearance of Mary's quinces was never officially solved, nor were her losses confined to that year, despite the security measures which she had taken.

Mary lost interest in entering the jelly and pie contests in the county fair. Now that she could no longer count on having her prized quinces ripen on the tree, her heart just wasn't in it. Myrtle Beth happily took her place as champion pie and jelly maker of the county.

Through all of their remaining years as neighbors, Mary and Myrtle Beth did not exchange a single word, not even after Myrtle Beth solved the mystery of the quince-snatcher. You see, Myrtle Beth never told Mary what she had observed from her kitchen window, just at dark, one autumn evening. She never told how she stood there for a long, long time, chuckling to herself as she watched a big, fat mother opossum pick first one and then another of the almost-ripe fruits from Mary's grandmother's European quince tree.

She never told how the opossum carried them, one by one, over the eight-foot high chain link fence with its padlocked gate, past the window of the kitchen where Mary was busy preparing supper, across the darkening yard, and into the woods behind the house. Mary Beth Clinghan never told anyone. That was her little secret. ■



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